Aurora Avenue North Transit, Pedestrian, and Safety Improvements, North 110th Street to North 145th Street NEPA Documented Categorical Exclusion

Final

Traffic Noise Discipline Report

Prepared for

Seattle Department of Transportation

Prepared by

CH2MHILL

August 2006

Table of Contents

Summary ..... ***v***

Introduction v
Methodology v
Affected Environment v
Project Impacts and Mitigation v

Acronyms and Abbreviations Used in This Report ..... ***vii***

Glossary ..... ***ix***

1. Introduction ***1-1***

2. Project Description ***2-1***

2.1 Major Design Elements 2-1
2.1.1 Widen the Roadway 2-1
2.1.2 Build Sidewalks and ADA Ramps 2-4
2.1.3 Upgrade Storm Drainage Facilities 2-5
2.1.4 Replace Lighting 2-5
2.1.5 Install Landscaped Medians and Sidewalk Zone with Landscaped Strips 2-5
2.1.6 Upgrade Traffic Signalizations 2-6
2.1.7 Upgrade Metro Bus Stops 2-6
2.2 Phased Construction 2-6

3. Methodology ***3-1***

3.1 Methods of Analysis 3-1
3.2 Studies and Coordination 3-1
3.2.1 Characteristics of Noise 3-1
3.2.2 Impacts of Noise 3-2
3.2.3 Criteria and Noise Regulations 3-3

4. Affected Environment ***4-1***

4.1 Existing Conditions 4-1

5. Environmental Consequences ***5-1***

5.1 Impacts during Construction 5-1
5.1.1 Direct Impacts 5-1
5.1.2 Indirect Impacts 5-2
5.1.3 Mitigation during Construction 5-2
5.2 Impacts during Operation 5-3
5.2.1 Direct Impacts 5-3
5.2.2 Indirect Impacts 5-3
5.2.3 Mitigation 5-3

6. References ***6-1***

Appendices

Appendix A. Traffic Data

Appendix B. Locations of Modeled Receptors

Appendix C. North Park Apartment Photos

Appendix D. Construction Noise Control

Appendix E. TNM Data Tables

Exhibits

2-1 Project Vicinity

2-2 Proposed Future Cross Section

3-1 Typical Sound Levels Measured in the Environment and Industry

3-2 Federal Highway Administration: Design Noise Level/Activity Relationships

4-1 Summary of Noise Level Measurements

4-2 Summary of Measured and Modeled Results

4-3 Comparison of Modeling Existing Results to the Noise Abatement Criteria

5-1 Typical Construction Noise Levels

5-2 Comparison of Modeled Existing and Future Results to NAC

5-3 WSDOT's Allowed Cost per Household

5-4 Summary of Feasible/Reasonable Noise Barrier Determination

Summary

Introduction

The City of Seattle, Washington, in cooperation with the Washington Department of Transportation (WSDOT) and the Federal Highway Administration (FHWA), proposes to make improvements to Aurora Avenue North between North 110th Street and North 145th Street. The purpose of this report is to evaluate potential noise impacts associated with proposed changes to the local roadway network, to quantify noise exposure as a result of project construction, and to determine potential mitigation measures for reducing traffic noise levels resulting form the project. This report was prepared in support of a National Environmental Policy Act (NEPA) Documented Categorical Exclusion (DCE) and a State Environmental Policy Act (SEPA) Determination of Nonsignificance (DNS).

Methodology

Existing and future (2030) noise levels were estimated using the Federal Highway Administration (FHWA) Traffic Noise Model (TNM) Version 2.5 at various noise receiver locations in the vicinity of the project. TNM uses project alignment and roadway and receiver elevations to calculate noise levels. Twenty-seven receiver locations were modeled representing commercial, residential, and outdoor use areas within the project area. The peak-hour noise levels were predicted by using existing and estimated 2030 peak-hour traffic data and speeds.

Construction noise impacts were also evaluated.

Affected Environment

Land use in the study area is predominantly commercial with some residential (apartment) and motel uses. The Evergreen-Washelli Funeral Home and Cemetery is located adjacent to the project.

Project Impacts and Mitigation

Short-term noise impacts would occur during construction. Construction would be scheduled for normal daytime working hours. Various construction noise mitigation methods will be implemented.

Existing and future traffic noise levels were compared to the noise abatement criteria (NAC) for the project land uses at each location. Existing traffic noise levels exceeded the NAC at five locations. Future noise levels were found to be 2 A-weighted decibels (dBA) greater than

existing noise levels and exceeded the NAC at four additional locations, for a total of nine exceedance locations, which were all Activity Category B. Mitigation was not found to be reasonable or feasible at any location and no noise walls are recommended.

Acronyms and Abbreviations Used in This Report

BAT	business access and transit [lane]
dBA	A-weighted sound level in decibels (see Glossary)
FHWA	Federal Highway Administration
GIS	geographic information system
NAC	noise abatement criteria
NEPA	National Environmental Policy Act
PSRC	Puget Sound Regional Council
SR 99	State Route 99
TNM	FHWA Traffic Noise Model
WSDOT	Washington State Department of Transportation

Glossary

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-weighted 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 and correlates well with subjective reactions to noise. All sound levels in this report are A-weighted.

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

Equivalent noise level (L_{eq}) – The average (on an energy basis) A-weighted noise level during a measurement period.

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

Source: Beranek, 1988.

1. Introduction

Aurora Avenue North is a major north/south urban highway that serves both local and regional traffic within the city of Seattle, Washington. Aurora Avenue North, as named within the city of Seattle, is a portion of signed State Route 99 (SR 99) that extends from north Pierce County to north Snohomish County and serves as a regional link between cities within the Puget Sound Region. Within the project limits, Aurora Avenue serves as a major traffic artery for the city of Seattle with links to I-5 through connections at North 130th Street and North 145th Street.

The purpose of this Traffic Noise Discipline Report is to describe existing traffic noise characteristics and evaluate potential impacts and mitigation measures.

This report begins with a description of the Build Alternative in Section 2. The methodology used to assess the affected environment and evaluate the potential noise impacts of the project is presented in Section 3. Section 4 provides a description of the affected environment in terms of the existing noise in the study area. The study area for the Traffic Noise Discipline Report is defined as Aurora Avenue North between North 110th Street and North 145th Street.

Section 5 discusses direct and indirect impacts from the project. This addresses traffic noise impacts for both construction and after completion of the Build Alternative, as well as any mitigation requirements that apply to these impacts. Potential traffic noise impacts addressed include impacts on future operational noise and construction noise.

2. Project Description

The Aurora Avenue North project is located within the City of Seattle in King County, Washington. Aurora Avenue North is a major north/south urban highway that serves both local and regional traffic within the City of Seattle. Aurora Avenue North, as named within the City of Seattle, is a portion of signed State Route 99 (SR 99) that extends from north Pierce County to north Snohomish County and serves as a regional link between cities within the Puget Sound Region. Within the project limits, Aurora Avenue serves as a major traffic artery for the City of Seattle, with links to I-5 through connections at North 130th Street and North 145th Street.

The City of Seattle, in cooperation with the Washington Department of Transportation (WSDOT) and the Federal Highway Administration (FHWA), proposes to make improvements to Aurora Avenue North between North 110th Street and North 145th Street (approximately 1.6 miles; see Exhibit 2-1). The project improvements are described in greater detail below. These improvements are consistent with the Route Development Plan (RDP) (WSDOT 2003) prepared by WSDOT for Aurora Avenue North between the north end of the Battery Street Tunnel and North 145th Street in the City of Seattle, Washington (milepost 32.44 to milepost 40.47). The RDP is a 25-year plan intended to assist WSDOT, the City of Seattle, and King County Metro in making informed decisions on future improvements to the SR 99 corridor.

The RDP listed the following six long-term improvement recommendations for what was referred to as the North Focus Area, from North 110th Street to North 145th Street (see Exhibit 2-2):

- Widen existing lanes
- Add a southbound business access and transit (BAT) lane
- Add a raised median with controlled access points
- Construct a continuous amenity zone on both sides of SR 99
- Improve pedestrian crossings
- Driveway consolidation at logical locations

This project has been designed with the intent of fulfilling those recommendations.

2.1 Major Design Elements

2.1.1 Widen the Roadway

The existing roadway consists of four general-purpose lanes, a continuous two-way left turn lane and/or a delineated left turn lane, and paved shoulders where width allows. There is also a BAT lane in the northbound direction. Sidewalks exist at spot locations throughout the project limits.

Cemetery

Park

Project Footprint

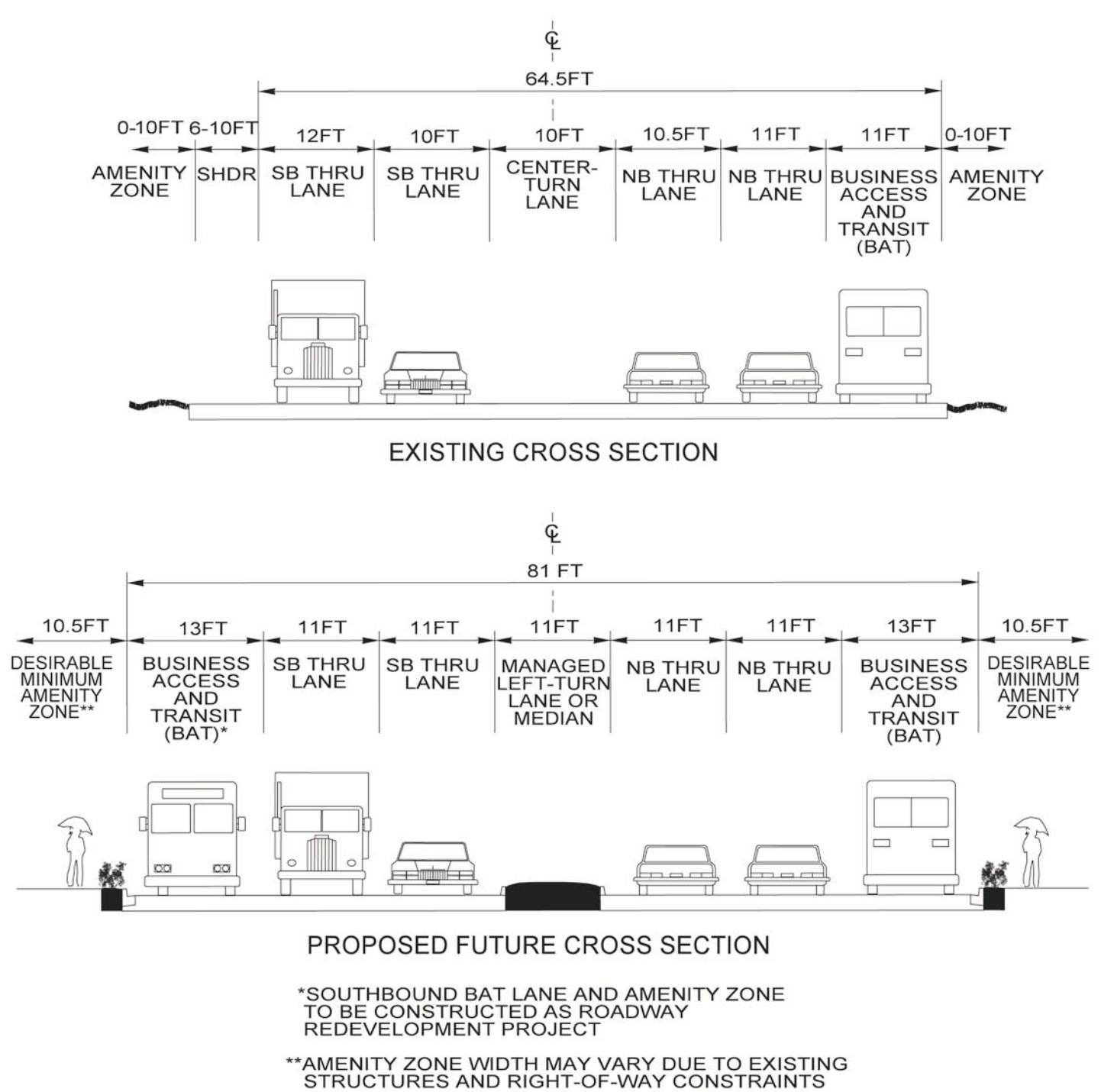
0 500 1,000 Feet

N

Exhibit 2-1. **Vicinity Map**

Aurora Avenue N 110th to 145th

File Path: \\simba\proj\SeattleWaCityOf\324876\GIS\Layouts\VicinityMap.mxd, Date: February 28, 2006 2:43:53 PM



Source: WSDOT 2003.

Exhibit 2-2. **Proposed Future Cross Section**

Aurora Avenue N 110th to 145th

Numerous commercial and retail driveways with undefined limits exist along both sides of the roadway.

Seattle Department of Transportation (SDOT) is proposing to widen the Aurora roadway by adding a new southbound 13-foot BAT Lane (see Exhibit 2-2). The proposed improvements would create a seven-lane roadway section (measuring roughly 81 feet as compared to the existing 64 feet) composed of the following:

- 13-foot BAT lanes in both directions, with a new southbound BAT lane
- Two 11-foot general purpose lanes in each direction
- An 11-foot left turn lane/landscaped center median, or access management features, between North 110th Street and North 145th Street
- Revisions to U-turns and left turns between North 110th Street and North 145th Street
- New curbs and gutters

Where the Evergreen-Washelli Cemetery is located within the project corridor, from North 110th Street to roughly North 116th Street, the proposed project improvements would create a reduced section (measuring 90 feet as compared to the 105 feet proposed for the remainder of the project) to eliminate the need to acquire right-of-way from the cemetery. Modifications to the proposed full section would be as follows:

- 11.5-foot BAT lanes in both directions
- Two 10.5-foot general purpose lanes in each direction
- A 10-foot left turn lane/landscaped center median, or access management features
- An 8-foot sidewalk on the west side of Aurora along the entire length of the cemetery property, from North 110th Street to the vicinity of North 118th Street
- A 7-foot sidewalk on the east side of Aurora along the cemetery property from North 110th Street to North 115th Street.

2.1.2 Build Sidewalks and ADA Ramps

- In general, a 12-foot sidewalk would be added on both sides of the road to include sidewalks, landscaping strips or tree pits, utility poles with mounted lighting, and fire hydrants. Ultimately, where there are right-of-way constraints, the sidewalk may be reduced to 5.5 feet. Refer to Exhibit 2-2 for details. For the purposes of this analysis, a 12-foot sidewalk was evaluated for impacts.

- Americans with Disabilities Act (ADA) ramps would be provided throughout the project area.

2.1.3 Upgrade Storm Drainage Facilities

The existing drainage along the project area consists primarily of enclosed pipes and catch basins that collect and convey stormwater runoff from the roadway, driveways, and adjacent properties to the main trunk line running parallel to Aurora Avenue.

The project would direct all runoff to a new storm drain system and six new underground vaults, which would discharge to the existing trunk line parallel to Aurora Avenue North before ultimately discharging to Green Lake to the south. It has not been determined whether the detention vaults would be located in the right-of-way of Aurora Avenue North or in adjacent side streets. The six discharge points would be located at:

- North 145th Street
- North Roosevelt Way
- North 137th Street
- South of North 135th Street through K-Mart
- North 115th Street
- North 110th Street

Runoff that enters the project site from offsite areas would be collected and conveyed in a separate drainage system and would not be routed through the underground vaults. The treatment of stormwater runoff for the project would meet the criteria in WSDOT's 2004 *Highway Runoff Manual*.

2.1.4 Replace Lighting

Existing lighting in the corridor consists of utility poles with street lights along both sides of Aurora Avenue North. The poles are currently staggered with spacing from 120 to 170 feet. In addition to the current lighting scheme for the corridor, four additional lights would be added at each of the existing signalized intersections. The same luminaire type, mounting height, and arm length that currently exist along the corridor is proposed for the project. The exact location of the new staggered utility poles has yet to be determined. The potential spacing between poles is anticipated to be between 120 and 170 feet. The utility lines would not be placed underground as part of this project.

2.1.5 Install Landscaped Medians and Sidewalk Zone with Landscaped Strips

The existing corridor consists mainly of commercial development with few pedestrian or landscape improvements. Overhead power lines, asphalt

shoulders, cars, and adjacent businesses dominate much of the visual appearance through the corridor.

The following elements would be implemented for the project:

- The median would be approximately 11 feet wide, including the curb. The median would be approximately 12 inches in height and include hardy low-maintenance plants; no trees would be included.
- The sidewalk zone, in general, would be 12 feet wide where practicable, as mentioned in Section 2.1.2.
- The planting strip, included as part of the total sidewalk zone, would be a minimum of 3 feet wide with 5-foot "bulb-outs" where trees are located.
- At some parcels along the study area, Seattle Municipal Code onsite compliant parking spaces are likely to be removed as a result of the proposed sidewalk zone. In addition, existing noncompliant parking spaces, which are located within City of Seattle right-of-way, would be affected. Where feasible, the City will help identify other parking opportunities for affected businesses along the corridor that lose onsite compliant parking spaces as a result of the project.

2.1.6 Upgrade Traffic Signalizations

No new signalized intersections are proposed for the project corridor. The seven existing signalized intersections would be upgraded to include new interconnected equipment and poles.

2.1.7 Upgrade Metro Bus Stops

Existing transit stops will be upgraded with lighting and shelters. No new stops are proposed.

2.2 Phased Construction

Right-of-way acquisition could start as early as fall 2007. Construction is expected to be completed in several phases, as funding becomes available, over the next 8 to 10 years. Improvements between North 137th Street and North 145th Street could begin in late 2007.

Construction for each phase is anticipated to last approximately 1.5 to 2 years. Potential environmental impacts and mitigation for all phases are analyzed in this NEPA document but are not currently funded. Future phases may require further environmental analysis at the time they are funded if significant changes occur in the project design.

3. Methodology

3.1 Methods of Analysis

This discipline report was prepared using the guidance outlined in Section 446 of the Washington State Department of Transportation (WSDOT) *Environmental Procedures Manual* (WSDOT 2006).

Traffic noise levels were calculated using the FHWA Traffic Noise Prediction Model (FHWA-RD-77-108) as coded into the Traffic Noise Model (TNM) Version 2.5 computer program. FHWA's TNM is the analytical method currently favored by many state and local agencies, including WSDOT, for highway traffic noise prediction.

TNM is based upon reference energy emission levels for automobiles, medium trucks (two axles), and heavy trucks (three or more axles), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The model uses the traffic noise emission curves recommended by FHWA to calculate noise levels generated by highway traffic.

Noise levels were predicted using PM peak-hour traffic volumes. Existing peak-hour traffic volumes were for 2005 and future traffic volumes were for 2030. The modeled sites include sensitive areas such as outdoor use areas and commercial area sites that could be affected by either increases or decreases in traffic noise for this project.

The project alignment for Aurora Avenue and locations of adjacent crossroads and receivers were digitized from project base maps. Elevations were added to the x and y coordinates from a three-dimensional (3D) contour file. The 3D coordinates for roadways and receivers were entered into TNM. The traffic volumes and roadway speeds for all vehicles for existing and build scenarios were entered into the model.

Construction noise levels are discussed qualitatively based on the typical noise level range for construction equipment and the requirements of the Seattle Municipal Code Noise Control guidelines (Seattle Municipal Code, 2005).

3.2 Studies and Coordination

3.2.1 Characteristics of Noise

Noise is defined as unwanted sound. Airborne sound is a rapid fluctuation of air pressure above and below atmospheric pressure. There are several different ways to measure noise, depending on the source of the noise, the

receiver, and the reason for the noise measurement. In this subsection, some statistical noise levels are stated in terms of decibels on the A-weighted scale (dBA). Noise levels stated in terms of dBA reflect the response of the human ear by filtering out some of the noise in the low- and high-frequency ranges that the ear does not detect well. The A-weighted scale is used in most ordinances and standards. The equivalent sound pressure level (L_{eq}) is defined as the average noise level, on an energy basis, for a stated period of time (for example, hourly). In practice, the level of a sound source is conveniently measured using a sound level meter that includes an electrical filter corresponding to the A-weighted curve. The sound level meter also performs the calculations required to determine the L_{eq} for the measurement period.

Technical noise terms used in this report are defined in the Glossary.

3.2.2 Impacts of Noise

The impacts of noise on people can be listed in three general categories:

- Subjective impacts of annoyance, nuisance, or dissatisfaction
- Interference with activities such as speech, sleep, or learning
- Physiological impacts such as startling and hearing loss

In most cases, environmental noise produces impacts in the first two categories only. However, workers in industrial plants may experience noise impacts in the last category. No completely satisfactory way exists to measure the subjective impacts of noise, or to measure the corresponding reactions of annoyance and dissatisfaction. This lack of standard is primarily a result of the wide variation in individual thresholds of annoyance and habituation to noise.

With regard to increases in A-weighted noise level, knowledge of the following relationships will be helpful in understanding this section:

- Except in carefully controlled laboratory experiments, a change of 1 dB cannot be perceived by humans.
- Outside the laboratory, a 3-dB change is considered a just-perceivable difference.
- A change in level of at least 5 dB is required before any noticeable change in community response would be expected.
- A 10-dB change is subjectively heard as approximately a doubling in loudness.

Exhibit 3-1 shows the relative A-weighted noise levels of common sounds measured in the environment and in industry for various sound levels.

EXHIBIT 3-1. SOUND LEVELS AND RELATIVE LOUDNESS OF TYPICAL NOISES IN INDOOR AND OUTDOOR ENVIRONMENTS

Activity	Sound Level (dBA)	Subjective Impression	Relative Loudness (human judgment of different sound levels)
Jet aircraft takeoff from carrier (50 ft)	140	Threshold of pain	64 times as loud
50-hp siren (100 ft)	130		32 times as loud
Jet takeoff (200 ft)	120	Uncomfortably loud	16 times as loud
Riveting machine	110		8 times as loud
Jet takeoff (2,000 ft)	100	Very loud	4 times as loud
Heavy truck or motorcycle (25 ft)	90		2 times as loud
Pneumatic drill (50 ft), garbage disposal, or food blender	80	Moderately loud	Reference loudness
Vacuum cleaner (10 ft) or passenger car at 65 mph (25 ft)	70		1/2 as loud
Large store air-conditioning unit (20 ft)	60		1/4 as loud
Light auto traffic (100 ft)	50	Quiet	1/8 as loud
Bedroom/living room or bird calls	40		1/16 as loud
Library, soft whisper (15 ft)	30	Very quiet	
Broadcasting studio	20		
	10	Just audible	
	0	Threshold of hearing	

Source: Beranek 1971.

3.2.3 Criteria and Noise Regulations

Traffic noise levels are evaluated against the traffic noise impact criteria established by the WSDOT noise policy and FHWA noise criteria. FHWA criteria are based on peak traffic hour noise levels.

Exhibit 3-2 shows the FHWA Design Level/Activity Relationship used for determining the noise abatement criteria (NAC) for specific land uses (for example, residential or commercial). FHWA considers a traffic noise impact to occur if predicted peak-hour traffic noise levels "approach" or exceed the NAC or "substantially exceed" existing levels. WSDOT defines "approach" as within 1 dBA of the NAC and "substantial" as an increase greater than 10 dBA resulting in at least 50 dBA L_{eq}.

EXHIBIT 3-2 FEDERAL HIGHWAY ADMINISTRATION DESIGN NOISE LEVEL/ACTIVITY RELATIONSHIPS

Activity Category	Design Noise Levels (dB A)[1] L_{eq} Hourly	Description of Land Use Activity Category
A2	57 (Exterior)	Tracts of land where serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if they are to continue to serve their intended purpose. Such areas could include amphitheaters, particular parks or portions of parks, open spaces, or historic districts which are dedicated to or recognized by appropriate local officials for activities requiring special qualities of serenity and quiet.
B[2]	67 (Exterior)	Picnic areas, recreation areas, playgrounds, active sports areas, and parks which are not included in category A, and residences, motels, hotels, public meeting rooms, schools, churches, libraries, and hospitals.
C	72 (Exterior)	Developed lands, properties, or activities not included in Categories A and B above.
D	--	Undeveloped lands
E	52 (Interior)	Residences, motels, hotels, public meeting rooms, schools, churches, libraries, hospitals, and auditoriums.

Source: Title 23 CFR Part 772–Procedures for Abatement of Highway Traffic Noise and Construction Noise. FHWA, April 1992.

[1] Either L_{eq} or L_{10} design levels may be used.

[2] Parks of categories A and B include all such lands (public or private) that are used as parks, as well as those public lands officially set aside or designated by a governmental agency as parks on the date of public knowledge of the proposed highway project.

A complete copy of WSDOT's policies and procedures can be viewed online at: http://www.wsdot.wa.gov/regions/Northwest/rp&s/environmental/aae/policies.htm.

4. Affected Environment

The project land use is mainly commercial with a few residential/motel uses. The terrain of the area is relatively flat. The commercial use areas are defined as FHWA Activity Category C. The residential areas (including apartment buildings and hotels) are defined as Activity Category B (refer to Exhibit 3-2 for activity category definitions). Evergreen-Washelli Funeral Home and Cemetery (Activity Category B) is located adjacent to the project.

FHWA and WSDOT requirements state that traffic noise impacts occur when the predicted traffic noise levels approach or exceed the NAC or when a substantial increase in the traffic noise levels will occur. Approaching the NAC has been defined as 1 dBA less than the absolute levels shown in Exhibit 3-2. For example, the outside activity areas of Activity Category B uses (residences, schools, parks, churches, etc.) are impacted by traffic noise when noise levels reach an equivalent sound pressure level (L_{eq}) of 66 dBA. An increase of 10 dBA or more is considered a substantial increase.

4.1 Existing Conditions

Noise level measurements and concurrent traffic counts were conducted at four locations. Twenty-minute measurements were taken at each location. Exhibit 4-1 summarizes the results of the measurements at these locations. Monitoring locations are show in Exhibit B-1. Measurement equipment consisted of Larson Davis 824 sound level meters equipped with ½-inch microphones. An acoustical calibrator was used to calibrate the sound level meter before and after use. All instrumentation satisfies the ANSI Type I (precision) requirements and was factory calibrated within the past 12 months.

EXHIBIT 4-1 SUMMARY OF NOISE LEVEL MEASUREMENTS

Map ID	Location Notes	Date	Start Time	Noise Level (L_{eq} dBA)	Northbound Counts			Southbound Counts		
					Auto	Medium Trucks	Heavy Trucks	Auto	Medium Trucks	Heavy Trucks
M1	Holiday Inn Express	February 10, 2006	8:54	62	699	15	21	984	30	21
M2	Best Western	February 10, 2006	9:30	63	765	27	21	957	27	21
M3	Apartment	February 10, 2006	10:10	65	840	30	12	930	27	18
M4	Evergreen Cemetery	February 10, 2006	10:59	61	1098	36	9	936	36	27

EXHIBIT 4-1 SUMMARY OF NOISE LEVEL MEASUREMENTS										
					Northbound Counts			Southbound Counts		
Map ID	Location Notes	Date	Start Time	Noise Level (L_{eq} dBA)	Auto	Medium Trucks	Heavy Trucks	Auto	Medium Trucks	Heavy Trucks

NOTE: All measurements were 20 minutes. All traffic volumes are hourly equivalent.

Source: CH2M HILL

Exhibit 4-2 summarizes the comparison of traffic noise level measurements to the TNM predictions. Exhibit 4-2 shows that the noise levels predicted by the TNM model were within 2 dBA of those measured and comply with the WSDOT policy. Such small differences show good agreement between measured and calculated noise levels and indicates that TNM may be used to accurately calculate traffic noise exposure for existing and projected future conditions.

EXHIBIT 4-2 SUMMARY OF MEASURED AND MODELED RESULTS				
Map ID	Location Notes	Measured L_{eq} (dBA)	Modeled L_{eq} (dBA)	Difference (Model-Measured) (dBA)
M1	Holiday Inn Express	62	63	1
M2	Best Western	63	62	1
M3	Apartment	65	63	2
M4	Evergreen Cemetery	61	61	0

Source: CH2M HILL

In accordance with WSDOT policy, the existing peak traffic volumes and posted speed limits at representative locations within the project area were input into the TNM model to determine the highest existing hourly noise levels. Twenty-seven modeling locations were selected. The locations include residential, commercial, and outdoor uses. Existing roadway geometry was used in the model.

Exhibit 4-3 summarizes the locations modeled, land use category, existing noise level modeling results, and whether or not the results exceed that location's NAC. Appendix A presents the existing peak hour traffic data used in the model. Maps depicting the modeled locations are included in Appendix B. For North Park Apartment (NP1 and NP2 in Exhibit B-1) there are no ground level receivers so two second story balconies were modeled in this analysis. Photographs of this apartment are included in Appendix C.

The NAC for Activity Category B (66 dBA) is exceeded at 7 of the 20 Category B modeled locations. The NAC for Activity Category C (71 dBA) is not exceeded at any of the 12 Category C modeled locations.

EXHIBIT 4-3 COMPARISON OF MODELING EXISTING RESULTS TO THE NOISE ABATEMENT CRITERIA					
Map ID	Location Notes	Land Use/FHWA Classification	NAC[1]	Existing (2005) L_{eq} dBA	Exceeds NAC
R1	Cemetery entrance south of N.115th	Outdoor/ Category B	66	67	Yes
R2	Cemetery south of N. 115th	Outdoor/ Category B	66	64	No
R3	Cemetery entrance south of N. 115th	Outdoor/ Category B	66	64	No
R4	Cemetery garden south of N. 115th	Outdoor/ Category B	66	61	No
R5	Apartment 1 south of N. 125th	Residential/ Category B	66	68	Yes
R6	Apartment 1 south of N. 125th	Residential/ Category B	66	63	No
R7	Hotel south of N. 125th	Hotel/ Category B	66	67	Yes
R8	Hotel south of N. 125th	Hotel/ Category B	66	65	No
R9	Hotel swimming pool near N. 125th	Hotel/ Category B	66	63	No
R10	Hotel near N. 125th	Hotel/ Category B	66	65	No
R11	125th Bar and Grill	Commercial/ Category C	71	66	No
R12	Krispy Kreme near N. 125th	Commercial/ Category C	71	66	No
R13	Krispy Kreme near N. 125th	Commercial/ Category C	71	64	No
R14	Korea Times north of N. 125th	Commercial/ Category C	71	65	No
R15	Appliance Service Station north of N. 125th	Commercial/ Category C	71	68	No
R16	Commercial building parking near N 130th	Commercial/ Category C	71	65	No
R17	Commercial building parking near N 130th	Commercial/ Category C	71	55	No
R18	Commercial building parking north of N.130th	Commercial/ Category C	71	67	No
R19	Shopping center north of N. 135th	Commercial/ Category C	71	65	No
R20	Liquidator entrance north of N. 135th	Commercial/ Category C	71	66	No
R21	Enterprise Rent-A-Car north of N. 137th	Commercial/ Category C	71	68	No
R22	Enterprise Rent-A-Car north of N. 137th	Commercial/ Category C	71	64	No
R23	Hotel entrance north of N.137th	Residential/ Category B	66	66	Yes
R24	Holiday Inn north of N. 137th	Hotel/ Category B	66	70	Yes
R25/M1	Holiday Inn north of N. 137th	Hotel/ Category B	66	64	No
R26	Home along Midvale Ave. N. of N. 140th	Residential/ Category B	66	60	No
R27	Home along Midvale Ave. N. of N. 143rd	Residential/ Category B	66	60	No
M2	Hotel entrance north of N.137th	Residential/ Category B	66	59	No
M3	Hotel near N. 125th	Hotel/ Category B	66	65	No
M4	Within Cemetery	Outdoor/ Category B	66	65	No

NP1	North Park Apartment Near Aurora Avenue	Residential/ Category B	66	71	Yes
NP2	North Park Apartments set back from Aurora Avenue	Residential/ Category B	66	66	Yes

Source: CH2M HILL 2006.
[1] WSDOT defines "approaching" a NAC as within 1 dBA of the NAC; therefore NAC comparison values in this table are 66 and 71 instead of 67 and 72.

5. Environmental Consequences

This section discusses the impacts of the construction and operation of the Build Alternative on traffic noise levels. Direct impacts, indirect impacts, and mitigation are discussed.

Traffic volumes forecasted for the no-build and build alternatives are the same overall. The difference in traffic movements under the build alternative, as compared to the no-build alternative, occur at minor street intersections and driveways where the restrictive median redistributes turning movements to both left and U-turns at specified mid-block locations and major signalized intersections. The overall traveled area between the no-build and build alternatives is similar; therefore, the difference in noise levels between the two alternatives is anticipated to be less than measurable. For these reasons, no-build and build alternative results are assumed to be the same.

5.1 Impacts during Construction

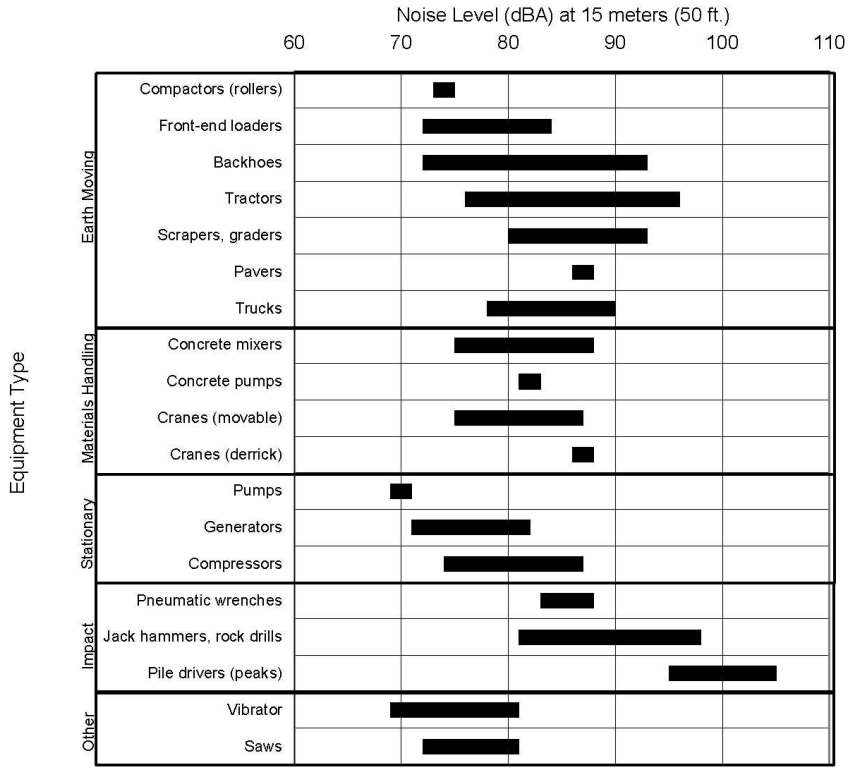
5.1.1 Direct Impacts

Impacts during construction are considered short-term in comparison to the life-span of the completed project and are anticipated to occur during normal daytime working hours. Construction of the Build Alternative is expected to be completed in phases over the next 8 to 10 years. Most of the construction impacts would end when construction is complete. The Contractor would comply with local policies and regulations regarding construction activities.

Noise impacts would range from low (such as noise from trucks, cranes, and other construction vehicles) to high (such as vibratory compaction equipment and pile-driving during bridge construction). Pile-driving and other unusually loud activities would be limited to daytime hours. As indicated in Exhibit 5-1, activities involved in construction would generate noise levels ranging from 69 to 105 dBA at a distance of 50 feet. Noise would also be generated during the construction phase by increased truck traffic on area roadways associated with the transport of heavy materials and equipment. Construction activities would be temporary.

Construction activities will comply with the requirements of the Seattle Municipal Code Noise Control guidelines. These are included in Appendix D.

EXHIBIT 5-1. TYPICAL CONSTRUCTION NOISE LEVELS



Source: EPA, 1971 and WSDOT, 1991.

5.1.2 Indirect Impacts

Indirect impacts are those impacts caused by the proposed action that are later in time or further removed in distance, but are still reasonably foreseeable. The project will have minimal indirect impacts on noise levels as a result of construction. There will be a minor increase in local traffic noise resulting from construction workers traveling to and from the project.

5.1.3 Mitigation during Construction

The following measures will be used to minimize noise impacts during construction:

- Whenever possible, operation of heavy equipment and other noisy procedures will be limited to non-sleeping hours.
- Effective mufflers will be installed and maintained on equipment.
- Equipment and vehicle staging areas will be located as far from residential areas as possible.
- Idling of power equipment will be minimized.

- With 2 days advance notification from the cemetery regarding burial services, SDOT will direct the contractor to cease the use of high noise level generating equipment, such as pile drivers, next to the cemetery during the services. The duration of equipment shutdown is expected to be 2 to 3 hours.

Refer to Appendix D – Construction Noise Control – for more specific information.

5.2 Impacts during Operation

5.2.1 Direct Impacts

The peak 2030 traffic noise level was predicted with TNM using the roadway geometry and projected 2030 Build Alternative peak hourly traffic volumes and speeds. Exhibit 5-2 presents the results of traffic noise level modeling for existing and 2030 conditions; whether or not the result exceeded the NAC for the land use; and the difference between 2030 and existing modeled noise levels. Appendix A presents the 2030 peak-hour traffic data used for modeling.

Noise levels would increase from 1 to 2 dBA from existing conditions at all modeled locations. Future noise levels would exceed the NAC for Activity Category B at 13 of the 20 modeled locations. These exceedances would occur at the same locations predicted to exceed the NAC under the existing scenario and six additional locations. The additional locations include the cemetery, two apartment parking lots, and the front area of a hotel. Future noise levels would not exceed the NAC for Activity Category C at any of the 12 modeled locations.

Generally the distance from the edge of roadway to the 66 dBA level is 150 feet.

5.2.2 Indirect Impacts

Indirect impacts are those impacts caused by the proposed action that are later in time or further removed in distance, but are still reasonably foreseeable. Because the majority of land within the affected project area is already developed and the project is not anticipated to spur land development that is not already planned, no indirect impacts are anticipated.

5.2.3 Mitigation

Based on WSDOT's NAC, noise abatement measures would be considered when the predicted noise levels approach or exceed those values presented in Exhibit 3-2. This means noise abatement should be considered for any residential location where peak-hour noise levels equal

EXHIBIT 5-2 COMPARISON OF MODELED EXISTING AND FUTURE RESULTS TO NACS

Map ID	Location Notes	Land Use/FHWA Classification	NAC[1] (dBA)	Existing (2005) L_{eq} (dBA)	Existing exceeds NAC	Build (2030) L_{eq} (dBA)	Build exceeds NAC	Difference from Existing (dBA)
R1	Cemetery entrance south of N.115th	Outdoor/ Category B	66	67	Yes	68	Yes	1
R2	Cemetery south of N. 115th	Outdoor/ Category B	66	64	No	65	No	1
R3	Cemetery entrance south of N. 115th	Outdoor/ Category B	66	64	No	66	Yes	2
R4	Cemetery garden south of N. 115th	Outdoor/ Category B	66	61	No	62	No	1
R5	Apartment 1 south of N. 125th	Residential/ Category B	66	68	Yes	69	Yes	1
R6	Apartment 1 south of N. 125th	Residential/ Category B	66	63	No	64	No	1
R7	Hotel south of N. 125th	Hotel/ Category B	66	67	Yes	69	Yes	2
R8	Hotel south of N. 125th	Hotel/ Category B	66	65	No	66	Yes	1
R9	Hotel swimming pool near N. 125th	Hotel/ Category B	66	63	No	64	No	1
R10	Hotel near N. 125th	Hotel/ Category B	66	65	No	66	Yes	1
R11	125th Bar and Grill	Commercial/ Category C	71	66	No	67	No	1
R12	Krispy Kreme near N. 125th	Commercial/ Category C	71	66	No	67	No	1
R13	Krispy Kreme near N. 125th	Commercial/ Category C	71	64	No	65	No	1
R14	Korea Times north of N. 125th	Commercial/ Category C	71	65	No	66	No	1
R15	Appliance Service Station north of N. 125th	Commercial/ Category C	71	68	No	69	No	1
R16	Commercial building parking near N 130th	Commercial/ Category C	71	65	No	66	No	1
R17	Commercial building parking near N 130th	Commercial/ Category C	71	55	No	56	No	1
R18	Commercial building parking north of N.130th	Commercial/ Category C	71	67	No	69	No	2
R19	Shopping center north of N. 135th	Commercial/ Category C	71	65	No	66	No	1

EXHIBIT 5-2 COMPARISON OF MODELED EXISTING AND FUTURE RESULTS TO NACS

Map ID	Location Notes	Land Use/FHWA Classification	NAC[1] (dBA)	Existing (2005) L_{eq} (dBA)	Existing exceeds NAC	Build (2030) L_{eq} (dBA)	Build exceeds NAC	Difference from Existing (dBA)
R20	Liquidator entrance north of N. 135th	Commercial/ Category C	71	66	No	67	No	1
R21	Enterprise Rent-A-Car north of N. 137th	Commercial/ Category C	71	68	No	70	No	2
R22	Enterprise Rent-A-Car north of N. 137th	Commercial/ Category C	71	64	No	66	No	2
R23	Hotel entrance north of N.137th	Residential/ Category B	66	66	No	67	Yes	1
R24	Holiday Inn north of N. 137th	Hotel/ Category B	66	70	Yes	71	Yes	1
R25/M1	Holiday Inn north of N. 137th	Hotel/ Category B	66	64	No	66	Yes	2
R26	Home along Midvale Ave. N. of N. 140th	Residential/ Category B	66	60	No	61	No	1
R27	Home along Midvale Ave. N. of N. 143rd	Residential/ Category B	66	60	No	61	No	1
M2	Hotel entrance north of N.137th	Residential/ Category B	66	59	No	60	No	1
M3	Hotel near N. 125th	Hotel/ Category B	66	65	No	66	Yes	1
M4	Within Cemetery	Outdoor/ Category B	66	65	No	66	Yes	1
NP1	North Park Apartment Near Aurora Avenue	Residential/ Category B	66	71	Yes	72	Yes	1
NP2	North Park Apartments set back from Aurora Avenue	Residential/ Category B	66	66	Yes	67	Yes	1

Source: CH2M HILL 2006
[1] WSDOT defines approaches within 1 dBA of the NAC, therefore NAC comparison values in this table are 66 and 71 instead of 67 and 72.

or exceed 66 dBA and for any commercial location where peak-hour noise levels equal or exceed 71 dBA.

Potential traffic noise abatement measures that may be considered for the project include the following:

- Construction of noise barriers between the roadway(s) and residential locations where future peak-hour noise levels exceed the NAC
- Realignment of the roadway(s)
- Implementation of traffic management measures (reduced speed limits, limitations, or restrictions on truck traffic)
- Acquisition of "buffer zones" between the highway and affected properties

Of the above mitigation measures, when necessary, the noise barrier option is usually the most practical and effective choice. Given current density of commercial and residential developments throughout the project area, substantial realigning of Aurora Avenue North would not be feasible without significant property acquisitions. For the same reason, creation of buffer zones is not a viable option for noise abatement. Additionally, traffic management measures, such as lowering the speed limit or limiting truck traffic, would contradict the project purpose and need.

The noise barrier analysis for residential locations that exceed the NAC requires the feasibility and reasonableness of the noise barrier to be determined. WSDOT's policy states that a feasible barrier will achieve a minimum 7-dBA reduction on at least one receiver and a 5-dBA reduction at the majority of first row receivers. When the construction of a noise barrier has been determined to be feasible, it must be determined reasonable by thoroughly considering a wide range of criteria, including cost. The cost is determined by counting all residences benefited by the noise barrier and dividing that number into the total cost of the noise abatement measure. Note that each unit in a multi-family building is counted as a separate residence. Exhibit 5-3 below shows that, as the predicted future noise level increases, WSDOT considers it reasonable to implement more costly measures to mitigate traffic noise.

EXHIBIT 5-3. WSDOT'S ALLOWED COST PER HOUSEHOLD

Design Year Traffic Noise	Allowed Cost Per Household*	Equivalent Wall Surface Area Per Household
66 dBA	$37,380	65.0 sq. meters (700 sq. ft)
67 dBA	$41,110	71.5 sq. meters (770 sq. ft.)
68 dBA	$44,640	77.7 sq. meters (836 sq. ft.)
69 dBA	$48,270	84.0 sq. meters (904 sq. ft.)
70 dBA	$51,900	90.3 sq. meters (972 sq. ft)
71 dBA	$55,530	96.6 sq. meters (1,040 sq. ft.)
72 dBA	$59,160	103.0 sq. meters (1,108 sq. ft.)

EXHIBIT 5-3. WSDOT'S ALLOWED COST PER HOUSEHOLD		
Design Year Traffic Noise	**Allowed Cost Per Household***	**Equivalent Wall Surface Area Per Household**
73 dBA	$62,790	109.2 sq. meters (1,176 sq. ft.)
74 dBA	$66,420	115.6 sq. meters (1,244 sq. ft)
Note: Reevaluated each year. Based on $53.40 per square foot constructed cost. Source: http://www.wsdot.wa.gov/regions/Northwest/rp&s/environmental/aae/policies.htm, February 2006.		

The project has frequent driveways along the whole length of the project, which reduces the effectiveness of any noise barrier. In particular, the driveways in front of apartment buildings along the project make noise walls infeasible.

The details of noise barrier effectiveness are summarized below. The following summary is from FHWA's brochure "Keeping the Noise Down," which can be viewed at http://www.fhwa.dot.gov/environment/keepdown.htm.

> Traffic noise barriers must be tall and long with no openings and are most effective within 200 feet of the roadway (typically, the first row of homes). To effectively reduce the noise from coming around the ends of a barrier, barriers should typically be eight times as long as the distance from the home to the roadway. Openings in noise barriers for driveway connections or intersecting streets destroy their effectiveness.

Exhibit 5-4 below summarizes the feasibility/reasonableness determination for the nine residential locations and potential outdoor use areas identified in Exhibit 5-2 as exceeding the NAC.

EXHIBIT 5-4. SUMMARY OF FEASIBLE/REASONABLE NOISE BARRIER DETERMINATION

Map ID	Location Notes	Feasible	Reasonable	Comments
R1 and R3	Cemetery entrance south of N.115th	Yes	No	The cemetery is considered a limited outdoor use area and only the first 150 feet of the cemetery is predicted to exceed the NAC of 66 dBA. A noise wall will reduce visibility to passing motorists and has the potential to increase vandalism. The driveways entering the cemetery will reduce the effectiveness of a noise wall. In order for a wall to be effective it would have to be at least 15 feet tall and extend the majority of SR 99 on both west and east sides. The wall would require 56 residential equivalents which is an unreasonable expectation.
R5	Apartment 1 south of N. 125th	No	No	There are no outdoor uses at this apartment complex. The driveways entering the apartment complex reduce the effectiveness of a noise wall.
R7	Hotel south of N. 125th	No	No	There are no outdoor uses at this hotel. The driveways entering the hotel reduce the effectiveness of a noise wall.

EXHIBIT 5-4. SUMMARY OF FEASIBLE/REASONABLE NOISE BARRIER DETERMINATION				
Map ID	**Location Notes**	**Feasible**	**Reasonable**	**Comments**
R8	Hotel south of N. 125th	No	No	Same as above.
R10	Hotel near N. 125th	No	No	Same as above.
R23	Hotel entrance north of N. 137th	No	No	There are no outdoor uses at this hotel. The driveways entering the hotel reduce the effectiveness of a noise wall.
R24	Holiday Inn north of N. 137th	No	No	Same as above
R25	Holiday Inn north of N. 137th	No	No	Same as above.
NP1 & NP2	North Park Apartments. N 115th	No	No	The outdoor uses are balconies on the second story. Openings required to provide access to the apartment garage reduce the effectiveness of a wall rendering a wall infeasible.

Note that the analysis of locations in Exhibit 5-4 has been included for completeness and to present a worst-case analysis (maximum number of impacts). No outdoor areas of frequent use are present in the study area.

Since mitigation at the cemetery is feasible, an additional qualitative analysis was conducted to explain why a noise wall is not reasonable at the cemetery.

Noise Wall for Cemetery (feasible, not reasonable)

TNM modeling predicts that receivers in the area will experience noise levels up to 68 dBA in the design year, build scenario. Because this location exceeds the WSDOT mitigation criteria of 66 dBA or greater, a noise wall was evaluated at this location.

A noise wall of approximately 1,500 feet in length on each side of Aurora Avenue and an average height of 15 feet, would provide a 7 dBA reduction in traffic noise levels to central areas of the cemetery. A 5dBA reduction would be achieved at other locations within the cemetery. Therefore, this wall meets the WSDOT's feasibility criteria.

The feasible wall would be 46,230 square feet and given the predicted noise levels at the park, 56 residential equivalents would be required to meet the WSDOT's reasonableness criteria. This would require that 168 users are in the cemetery at all hours. This is an unreasonable expectation and therefore this wall does not meet WSDOT's reasonableness criteria.

It is WSDOT's policy to make final decisions on the construction of noise barriers after final horizontal and vertical alignments are determined and a detailed engineering analysis of the feasibility and reasonableness of noise abatement can be made. Barriers that meet WSDOT's criteria as

accepted by FHWA will be constructed. Consistent with this policy, this analysis will be revisited when final alignments are available.

6. References

Beranek, L.L. (ed.). 1988. *Noise and Vibration Control*. Washington, D.C.: Institute of Noise Control Engineering.

CH2M HILL. 2006. Traffic volume data for the Aurora Avenue North Transit, Pedestrian, and Safety Improvements, North 110th Street to North 145th Street Project.

Code of Federal Regulations (CFR), Title 23, Part 772. 1992. *Procedures for Abatement of Highway Traffic Noise and Construction Noise*.

Federal Highway Administration (FHWA). 1987. *Guidance for Preparing and Processing Environmental and Section 4(F) Documents*. Technical Advisory T6640.8A.

Seattle Municipal Code. 2005. *Chapter 25.08 Seattle Municipal Code Noise Control, Washington*.

U.S. Department of Transportation. 1998a. *Federal Highway Administration Traffic Noise Model User's Guide*. John A. Volpe National Transportation Systems Center Acoustic Facility. January 1998.

U.S. Department of Transportation. 1998b. *Federal Highway Administration Traffic Noise Model Technical Manual*. John A. Volpe National Transportation Systems Center Acoustic Facility. February 1998.

U.S. Department of Transportation. 1978. *Federal Highway Administration Highway Traffic Noise Prediction Model*. Report No. FHWA-FD-77-108. Washington, D.C.: Federal Highway Administration. December 1978.

U.S. Department of Transportation. 1977. *Highway Construction Noise: Measurement, Prediction, and Mitigation*.

Washington State Department of Transportation (WSDOT). 2003. *Route Development Plan, State Route 99/Aurora Avenue North.* March 2003.

Washington State Department of Transportation (WSDOT). 2006. *Environmental Procedures Manual*. M31-11. March 2006.

WSDOT. 1991. *Construction Noise Levels.*

Appendix A
Traffic Data

EXHIBIT A-1. EXISTING PEAK HOUR TRAFFIC DATA

	Northbound					Southbound					
Aurora North	**Autos**	**Medium Trucks**	**Heavy Trucks**	**Buses**	**Motor-cycle**	**Autos**	**Medium Trucks**	**Heavy Trucks**	**Buses**	**Motor-cycle**	**Speed (mph)**
South of N. 112th Street	1663	17	17	9	3	1205	12	12	8	2	35
Between N. 117th Street and N. 115th Street	1756	18	18	9	4	1303	13	13	8	3	40
Between N. 128th Street and N. 125th Street	1820	19	19	9	4	1254	13	13	8	3	40
Between N. 130th Street and N. 128th Street	1732	18	18	9	4	1259	13	13	8	3	40
Between N. 135th Street and N. 130th Street	1786	18	18	9	4	1210	12	12	8	2	40
Between N. 137th Street and N. 135th Street	1918	20	20	9	4	1180	12	12	8	2	40
Between N. 140th Street and N. 137th Street	1893	19	19	9	4	1185	12	12	8	2	40
Between N. 143rd Street and N. 140th Street	1854	19	19	9	4	1175	12	12	8	2	40
North of N. 145th Street	1800	19	19	9	4	1122	12	12	8	2	40
Intersecting Streets			**EB**					**WB**			
N. 145th Street, west of Aurora Avenue N	684	11	4	1	1	618	10	3	3	1	30
N. 145th Street, east of Aurora Avenue N	913	14	5	1	2	946	15	5	3	2	30
N. 130th Street, west of Aurora Avenue N	545	8	3	3	1	647	10	3	3	1	25
N. 130th Street, east of Aurora Avenue N	638	10	3	3	1	789	12	4	3	2	25
N. 125th Street, west of Aurora Avenue N	415	6	2	1	1	405	6	2	1	1	25
N. 125th Street, east of Aurora Avenue N	371	6	2	1	1	258	4	1	1	1	25

Source: CH2M HILL 2006

EXHIBIT A-2. 2030 PEAK HOUR TRAFFIC DATA

	Northbound					Southbound					
Link Description	**Autos**	**Medium Trucks**	**Heavy Trucks**	**Buses**	**Motor-cycle**	**Autos**	**Medium Trucks**	**Heavy Trucks**	**Buses**	**Motor-cycle**	**Speed (mph)**
Aurora Avenue N											
South of N. 112th Street	2180	22	22	11	4	1580	16	16	9	3	35
Between N. 117th Street and N. 115th Street	2302	24	24	11	5	1712	18	18	9	4	40
Between N. 128th Street and N. 125th Street	2390	25	25	11	5	1644	17	17	9	3	40
Between N. 130th Street and N. 128th Street	2273	23	23	11	5	1654	17	17	9	3	40
Between N. 135th Street and N. 130th Street	2346	24	24	11	5	1590	16	16	9	3	40
Between N. 137th Street and N. 135th Street	2517	26	26	11	5	1551	16	16	9	3	40
Between N. 140th Street and N. 137th Street	2483	26	26	11	5	1556	16	16	9	3	40
Between N. 143rd Street and N. 140th Street	2429	25	25	11	5	1546	16	16	9	3	40
North of N. 145th Street	2361	24	24	11	5	1478	15	15	9	3	40
Intersecting Streets			**EB**						**WB**		
N. 145th Street, west of Aurora Avenue N	899	14	5	1	2	813	13	4	4	2	30
N. 145th Street, east of Aurora Avenue N	1207	19	6	1	2	1243	19	6	4	3	30
N. 130th Street, west of Aurora Avenue N	720	11	4	4	2	857	13	4	4	1	25
N. 130th Street, east of Aurora Avenue N	837	13	4	4	2	1042	16	5	4	2	25
N. 125th Street, west of Aurora Avenue N	547	8	3	1	1	542	8	3	1	1	25
N. 125th Street, east of Aurora Avenue N	493	8	3	1	1	351	5	2	1	1	25

Source: CH2M HILL 2006

Appendix B
Locations of Modeled Receptors

324876.01.04.06_TB022006002SEA . adr_B_01_noise_receiver_locations_pg.6_v3.ai . 7/6/06 . dk

Noise Receiver

Monitoring Location

0 50 100 Feet

N

Exhibit B-1

Noise Modeling Locations
(page 6 of 6)

Aurora Avenue North Project; N 110th St. to N 145th St.

324876.01.04.06_TB022006002SEA . adr_B_01_noise_receiver_locations_pg.5_v4.ai . 7/6/06 . dk

Noise Receiver
Monitoring Location

0 50 100 Feet

Exhibit B-1
Noise Modeling Locations
(page 5 of 6)

Aurora Avenue North Project; N 110th St. to N 145th St.

324876.01.04.06_TB022006002SEA . adr_B_01_noise_receiver_locations_pg.4_v2.ai . 2/9/06 . dk

Noise Receiver

0 50 100 Feet

N

Exhibit B-1

Noise Modeling Locations
(page 4 of 6)

324876.01.04.06_TB022006002SEA . adr_B_01_noise_receiver_locations_pg.3_v3.ai . 7/6/06 . dk

Noise Receiver

Monitoring Location

0 50 100 Feet

Exhibit B-1

Noise Modeling Locations
(page 3 of 6)

Aurora Avenue North Project; N 110th St. to N 145th St.

324876.01.04.06_TB022006002SEA . adr_B_01_noise_receiver_locations_pg.2_v2.ai . 2/9/06 . dk

Noise Receiver

0 50 100 Feet

Exhibit B-1

Noise Modeling Locations
(page 2 of 6)

Aurora Avenue North Project; N 110th St. to N 145th St.

324876.01.04.06_TB022006002SEA . adr_04_01_noise_receiver_locations_pg.1_v3.ai . 7/6/06 . dk

Noise Receiver

Monitoring Location

0 50 100 Feet

N

Exhibit B-1

Noise Modeling Locations
(page 1 of 6)

Aurora Avenue North Project; N 110th St. to N 145th St.

Appendix C
North Park Apartment Photos

NorthPark
(206) 367-7717
www.northparkvilla.com
1100 N. 115th St.

Another project financed by
KeyBank
Real Estate Capital
Community Real Estate Finance
Suzanne Radenkovic (425) 258-0395

Garage entrance

Appendix D
Construction Noise Control

Appendix D. Construction Noise Control

Seattle Municipal Code Noise Control Guidelines

Comply with the following construction noise abatement measures:

1. No construction shall be performed within 300 meters (m) of an occupied dwelling unit on Sundays, legal holidays and between the hours of 10:00 p.m. and 6:00 a.m. on other days without the approval of the Engineer.
2. All equipment used shall have sound control devices no less effective than those provided on the original equipment. No equipment shall have unmuffled exhaust.
3. All equipment shall comply with pertinent equipment noise standards of the U.S. Environmental Protection Agency.
4. No pile driving or blasting operations shall be performed within 900 m of an occupied dwelling unit on Sundays, legal holidays, and between the hours of 8:00 p.m. and 8:00 a.m. on other days, without the approval of the Engineer.
5. The noise from rock crushing or screening operations performed within 900 m of any occupied dwelling shall be mitigated by strategic placement of material stockpiles between the operation and the affected dwelling or by other means approved by the Engineer.

Should a specific noise impact complaint occur during the construction of the project, one or more of the following noise mitigations may be required at the Contractor's expense, as directed by the Engineer.

- Locate stationary construction equipment as far from nearby noise-sensitive properties as possible.
- Shut off idling equipment.
- Reschedule construction operations to avoid periods of noise annoyance identified in the complaint.
- Notify nearby residences whenever extremely noisy work will be occurring
- Install temporary or portable acoustic barriers around stationary construction noise sources.
- Operate electric-powered equipment using line voltage power.

Construction activities shall be conducted in a manner that complies with all applicable local noise ordinances, including Section 25.08.425, Seattle Municipal Code -Noise Control which includes the following restrictions (unless a variance is granted).

25.08.425 Construction and equipment operations.

A. The maximum permissible sounds levels established by Sections 25.08.410 and 25.08.420, as measured from the real property of another person or at a distance of fifty (50) feet from the equipment, whichever is greater, may be exceeded between the hours of seven (7:00) a.m. and ten (10:00) p.m. on weekdays and between the hours of nine (9:00) a.m. and ten (10:00) p.m. on weekends by no more than the following dB(a)'s for the following types of equipment:

1. Twenty-five (25) dB(A) for equipment on construction sites, including but not limited to crawlers, tractors, dozers, rotary drills and augers, loaders, power shovels, cranes, derricks, graders, off-highway trucks, ditchers, trenchers, compactors, compressors, and pneumatic-powered equipment;

2. Twenty (20) dB(A) for portable powered equipment used in temporary locations in support of construction activities or used in the maintenance of public facilities, including but not limited to chainsaws, log chippers, lawn, and garden maintenance equipment, and powered hand tools; or

3. Fifteen (15) dB(A) for powered equipment used in temporary or periodic maintenance or repair of the grounds and appurtenances of residential property, including but not limited to lawnmowers, powered hand tools, snow removal equipment, and composters.

B. Sounds created by impact types of construction equipment, including but not limited to pavement breakers, pile driver, jackhammers, sandblasting tools, or by other types of equipment or devices which create impulse noise or impact noise or are used as impact equipment, as measured at the property line or fifty (50) feet from equipment, whichever is greater, may exceed the maximum permissible sound levels established in subsection A of this section in any one (1) hour period between the hours of eight (8:00) a.m. and five (5:00) p.m. on weekdays and nine (9:00) a.m. and five (5:00) p.m. on weekends, but in no event to exceed the following:

1. Leq ninety (90) dBA continuously;

2. Leq ninety-three (93) dB(A) for thirty (30) minutes:

3. Leq ninety-six (96) dB(A) for fifteen (15) minutes; or

4. Leq ninety-nine (99) dB(A) for seven and one half (71/2) minutes; provided that sounds levels in excess of Leq ninety-nine (99) dB(A) are prohibited unless authorized by variance obtained from the Administrator; and provided further that sources producing sound levels less than ninety (90) dB(A) shall comply with subsection A of this section during those hours not covered by this subsection B.

a. The standard of measurement shall be a one (1) hour Leq. Leq may be measured for times not less than one (1) minute to project an hourly Leq. Reference to one (1) hour is for measurement purposes only and shall not be construed as limiting construction to a one (1) hour period.

b. These subsections A and B shall be reviewed periodically by the City to assure that the sound level limits are technically feasible.

C. Construction activity that exceeds the maximum permissible sound levels established by Section 25.08.410, when measured from the interior of buildings within a commercial district, is prohibited between the hours of eight (8:00) a.m. and five (5:00) p.m. For purposes of this subsection C, interior sound levels shall be measured only after every reasonable effort, including but not limited to closing windows and doors, is taken to reduce the impact of the exterior construction noise.

Appendix E
TNM Data Tables

CH2M HILL 16 May 2006
Natalie LIljenwall TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: For City of Seattle
RUN: Aurora Avenue North

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Aurora Avenue SB to south of 112th	50.0	98+25.00	13	1,268,317.6	263,463.2	365.90				Average	
		98+00.00	14	1,268,317.4	263,438.2	365.80				Average	
		97+75.00	15	1,268,317.2	263,413.2	365.70				Average	
		97+50.00	16	1,268,317.0	263,388.2	365.70				Average	
		97+25.00	17	1,268,316.8	263,363.2	365.60				Average	
		97+00.00	18	1,268,316.5	263,338.2	365.50				Average	
		96+75.00	19	1,268,316.2	263,313.2	365.60				Average	
		96+50.00	20	1,268,316.1	263,288.2	365.70				Average	
		96+25.00	21	1,268,315.9	263,263.2	365.80				Average	
		96+00.00	22	1,268,315.8	263,238.2	365.70				Average	
		95+75.00	23	1,268,315.5	263,213.2	365.70				Average	
		95+50.00	24	1,268,315.2	263,188.2	365.70				Average	
		95+25.00	25	1,268,315.1	263,163.2	365.60				Average	
		95+00.00	26	1,268,314.9	263,138.2	365.50				Average	
		94+75.00	27	1,268,314.8	263,113.2	365.50				Average	
		94+50.00	28	1,268,314.4	263,088.2	365.20				Average	
		94+25.00	29	1,268,314.2	263,063.2	364.90				Average	
		94+00.00	30	1,268,314.0	263,038.2	364.40				Average	
		93+75.00	31	1,268,313.8	263,013.2	363.90				Average	
		93+50.00	32	1,268,313.6	262,988.2	363.30				Average	
		93+25.00	33	1,268,313.4	262,963.2	362.40				Average	
		93+00.00	34	1,268,313.2	262,938.2	361.60				Average	
		92+75.00	35	1,268,313.0	262,913.2	360.80				Average	
		92+50.00	36	1,268,312.8	262,888.2	359.90				Average	
		92+25.00	37	1,268,312.6	262,863.2	359.00				Average	

		92+00.00	38	1,268,312.2	262,838.2	358.10				Average	
		91+75.00	39	1,268,312.1	262,813.2	357.10				Average	
		91+50.00	40	1,268,311.9	262,788.2	356.20				Average	
		91+25.00	41	1,268,311.8	262,763.2	355.30				Average	
		91+00.00	42	1,268,311.5	262,738.2	354.40				Average	
		90+75.00	43	1,268,311.2	262,713.2	353.50				Average	
		90+50.00	44	1,268,311.1	262,688.2	352.60				Average	
		90+25.00	45	1,268,310.9	262,663.2	351.70				Average	
		90+00.00	46	1,268,310.8	262,638.2	350.70				Average	
		89+75.00	47	1,268,310.5	262,613.2	349.80				Average	
		89+50.00	48	1,268,310.2	262,588.2	348.90				Average	
		89+25.00	49	1,268,310.0	262,563.2	348.00				Average	
		89+00.00	50	1,268,309.8	262,538.2	347.10				Average	
		88+75.00	51	1,268,309.6	262,513.2	346.20				Average	
		88+50.00	52	1,268,309.4	262,488.2	345.20				Average	
		88+25.00	53	1,268,309.2	262,463.2	344.30				Average	
		88+00.00	54	1,268,309.0	262,438.2	343.40				Average	
		87+75.00	55	1,268,308.8	262,413.2	342.50				Average	
		87+50.00	56	1,268,308.6	262,388.2	341.60				Average	
		87+25.00	57	1,268,308.4	262,363.2	340.70				Average	
		87+00.00	58	1,268,308.1	262,338.2	339.80				Average	
		86+75.00	59	1,268,307.9	262,313.2	338.90				Average	
		86+50.00	60	1,268,307.8	262,288.2	338.00				Average	
		86+25.00	61	1,268,307.5	262,263.2	337.20				Average	
		86+00.00	62	1,268,307.2	262,238.2	336.50				Average	
		85+75.00	63	1,268,307.1	262,213.2	335.80				Average	
		85+50.00	64	1,268,306.9	262,188.2	335.10				Average	
		85+25.00	65	1,268,306.8	262,163.2	334.90				Average	
		85+00.00	66	1,268,306.5	262,138.2	334.60				Average	
		84+75.00	67	1,268,306.2	262,113.2	334.40				Average	
		84+50.00	68	1,268,306.0	262,088.2	334.20				Average	
		84+25.00	69	1,268,305.8	262,063.2	334.10				Average	
		84+00.00	70	1,268,305.6	262,038.2	334.10				Average	
		83+75.00	71	1,268,305.4	262,013.2	334.00				Average	
		83+50.00	72	1,268,305.2	261,988.2	334.00				Average	
		83+25.00	73	1,268,305.0	261,963.2	333.90				Average	
		83+00.00	74	1,268,304.8	261,938.2	333.90				Average	
		82+75.00	75	1,268,304.6	261,913.2	333.80				Average	
		82+69.62	76	1,268,304.5	261,907.8	333.80					

Aurora Avenue SB 115th	50.0	124+75.00	193	1,268,338.9	266,113.1	417.80				Average	
		124+50.00	194	1,268,338.6	266,088.1	417.60				Average	
		124+25.00	195	1,268,338.4	266,063.1	417.40				Average	
		124+00.00	196	1,268,338.2	266,038.1	417.20				Average	
		123+75.00	197	1,268,338.0	266,013.1	416.90				Average	
		123+50.00	198	1,268,337.8	265,988.1	416.70				Average	
		123+25.00	199	1,268,337.8	265,963.1	416.50				Average	
		123+00.00	200	1,268,337.5	265,938.1	416.30				Average	
		122+75.00	201	1,268,337.2	265,913.1	416.10				Average	
		122+50.00	202	1,268,337.1	265,888.1	415.80				Average	
		122+25.00	203	1,268,336.9	265,863.1	415.60				Average	
		122+00.00	204	1,268,336.8	265,838.1	415.40				Average	
		121+75.00	205	1,268,336.5	265,813.1	415.20				Average	
		121+50.00	206	1,268,336.2	265,788.1	415.00				Average	
		121+25.00	207	1,268,336.1	265,763.1	414.70				Average	
		121+00.00	208	1,268,335.9	265,738.1	414.50				Average	
		120+75.00	209	1,268,335.8	265,713.1	414.30				Average	
		120+50.00	210	1,268,335.5	265,688.1	414.10				Average	
		120+25.00	211	1,268,335.2	265,663.1	413.90				Average	
		120+00.00	212	1,268,335.1	265,638.1	413.60				Average	
		119+75.00	213	1,268,334.9	265,613.1	413.40				Average	
		119+50.00	214	1,268,334.8	265,588.1	413.20				Average	
		119+25.00	215	1,268,334.5	265,563.1	413.00				Average	
		119+00.00	216	1,268,334.2	265,538.1	412.70				Average	
		118+75.00	217	1,268,334.1	265,513.1	412.50				Average	
		118+50.00	218	1,268,333.9	265,488.1	412.30				Average	
		118+25.00	219	1,268,333.8	265,463.1	412.10				Average	
		118+00.00	220	1,268,333.5	265,438.1	411.90				Average	
		117+75.00	221	1,268,333.4	265,413.1	411.60				Average	
		117+50.00	222	1,268,333.2	265,388.1	411.40				Average	
		117+25.00	223	1,268,333.0	265,363.1	411.20				Average	
		117+00.00	224	1,268,332.8	265,338.1	411.00				Average	
		116+75.00	225	1,268,332.6	265,313.1	410.80				Average	
		116+50.00	226	1,268,332.4	265,288.1	410.60				Average	
		116+25.00	227	1,268,332.2	265,263.1	410.40				Average	
		116+00.00	228	1,268,332.0	265,238.1	410.10				Average	
		115+75.00	229	1,268,331.8	265,213.1	409.90				Average	
		115+50.00	230	1,268,331.6	265,188.1	409.60				Average	
		115+25.00	231	1,268,331.4	265,163.1	409.10				Average	

		115+00.00	232	1,268,331.2	265,138.1	408.70				Average	
		114+75.00	233	1,268,331.0	265,113.1	408.20				Average	
		114+50.00	234	1,268,330.8	265,088.1	407.50				Average	
		114+25.00	235	1,268,330.6	265,063.1	406.80				Average	
		114+00.00	236	1,268,330.4	265,038.1	406.10				Average	
		113+75.00	237	1,268,330.2	265,013.1	405.40				Average	
		113+50.00	238	1,268,330.0	264,988.1	404.70				Average	
		113+25.00	239	1,268,329.8	264,963.1	403.90				Average	
		113+00.00	240	1,268,329.6	264,938.1	403.10				Average	
		112+75.00	241	1,268,329.4	264,913.1	402.30				Average	
		112+50.00	242	1,268,329.2	264,888.1	401.50				Average	
		112+25.00	243	1,268,329.1	264,863.1	400.70				Average	
		112+00.00	244	1,268,328.9	264,838.1	399.90				Average	
		111+75.00	245	1,268,328.8	264,813.1	399.10				Average	
		111+50.00	246	1,268,328.5	264,788.1	398.30				Average	
		111+25.00	247	1,268,328.2	264,763.1	397.50				Average	
		111+00.00	248	1,268,328.1	264,738.1	396.60				Average	
		110+75.00	249	1,268,327.9	264,713.1	395.80				Average	
		110+50.00	250	1,268,327.8	264,688.1	395.10				Average	
		110+25.00	251	1,268,327.5	264,663.1	394.30				Average	
		110+00.00	252	1,268,327.2	264,638.1	393.60				Average	
		109+75.00	253	1,268,327.1	264,613.1	392.80				Average	
		109+50.00	254	1,268,326.9	264,588.1	392.10				Average	
		109+25.00	255	1,268,326.8	264,563.1	391.30				Average	
		109+00.00	256	1,268,326.5	264,538.1	390.60				Average	
		108+75.00	257	1,268,326.2	264,513.1	389.80				Average	
		108+50.00	258	1,268,326.1	264,488.1	389.10				Average	
		108+25.00	259	1,268,325.9	264,463.1	388.30				Average	
		108+00.00	260	1,268,325.8	264,438.1	387.60				Average	
		107+75.00	261	1,268,325.5	264,413.1	386.80				Average	
		107+50.00	262	1,268,325.2	264,388.1	386.10				Average	
		107+25.00	263	1,268,325.1	264,363.1	385.30				Average	
		107+00.00	264	1,268,325.0	264,338.1	384.50				Average	
		106+75.00	265	1,268,324.8	264,313.1	383.80				Average	
		106+50.00	266	1,268,324.5	264,288.1	383.00				Average	
		106+25.00	267	1,268,324.2	264,263.1	382.30				Average	
		106+00.00	268	1,268,324.1	264,238.1	381.50				Average	
		105+75.00	269	1,268,323.9	264,213.1	380.80				Average	
		105+50.00	270	1,268,323.8	264,188.1	380.00				Average	

		105+25.00	271	1,268,323.5	264,163.1	379.30				Average	
		105+00.00	272	1,268,323.2	264,138.1	378.50				Average	
		104+75.00	273	1,268,323.1	264,113.1	377.80				Average	
		104+50.00	274	1,268,322.9	264,088.1	377.00				Average	
		104+25.00	275	1,268,322.6	264,063.1	376.30				Average	
		104+00.00	276	1,268,322.4	264,038.1	375.50				Average	
		103+75.00	277	1,268,322.2	264,013.1	374.80				Average	
		103+50.00	278	1,268,322.0	263,988.1	374.00				Average	
		103+25.00	279	1,268,321.8	263,963.1	373.30				Average	
		103+00.00	280	1,268,321.6	263,938.1	372.50				Average	
		102+75.00	281	1,268,321.4	263,913.2	371.70				Average	
		102+50.00	282	1,268,321.2	263,888.2	371.00				Average	
		102+25.00	283	1,268,321.0	263,863.2	370.20				Average	
		102+00.00	284	1,268,320.8	263,838.2	369.50				Average	
		101+75.00	285	1,268,320.5	263,813.2	368.70				Average	
		101+50.00	286	1,268,320.2	263,788.2	368.30				Average	
		101+25.00	287	1,268,320.1	263,763.2	368.00				Average	
		101+00.00	288	1,268,319.9	263,738.2	367.60				Average	
		100+75.00	289	1,268,319.8	263,713.2	367.30				Average	
		100+50.00	290	1,268,319.5	263,688.2	367.00				Average	
		100+25.00	291	1,268,319.2	263,663.2	366.70				Average	
		100+00.00	292	1,268,319.1	263,638.2	366.50				Average	
		99+75.00	293	1,268,318.9	263,613.2	366.40				Average	
		99+50.00	294	1,268,318.8	263,588.2	366.30				Average	
		99+25.00	295	1,268,318.4	263,563.2	366.20				Average	
		99+00.00	296	1,268,318.2	263,538.2	366.20				Average	
		98+75.00	297	1,268,318.0	263,513.2	366.10				Average	
		98+50.00	299	1,268,317.8	263,488.2	366.00					
Aurora Avenue SB to 125th	50.0	134+75.00	300	1,268,352.5	267,113.0	432.30				Average	
		134+50.00	301	1,268,352.2	267,088.0	431.50				Average	
		134+25.00	302	1,268,351.9	267,063.0	430.70				Average	
		134+00.00	303	1,268,351.6	267,038.0	430.00				Average	
		133+75.00	304	1,268,351.2	267,013.0	429.20				Average	
		133+50.00	305	1,268,350.9	266,988.0	428.40				Average	
		133+25.00	306	1,268,350.6	266,963.0	427.70				Average	
		133+00.00	307	1,268,350.2	266,938.0	426.90				Average	
		132+75.00	308	1,268,350.0	266,913.0	426.10				Average	
		132+50.00	309	1,268,349.6	266,888.0	425.40				Average	
		132+25.00	310	1,268,349.2	266,863.0	424.90				Average	

		132+00.00	311	1,268,349.0	266,838.0	424.40				Average	
		131+75.00	312	1,268,348.8	266,813.0	424.00				Average	
		131+50.00	313	1,268,348.4	266,788.0	423.60				Average	
		131+25.00	314	1,268,348.0	266,763.0	423.40				Average	
		131+00.00	315	1,268,347.8	266,738.0	423.20				Average	
		130+75.00	316	1,268,347.2	266,713.0	423.00				Average	
		130+50.00	317	1,268,347.0	266,688.0	422.80				Average	
		130+25.00	318	1,268,346.6	266,663.0	422.70				Average	
		130+00.00	319	1,268,346.2	266,638.0	422.40				Average	
		129+75.00	320	1,268,345.9	266,613.0	422.20				Average	
		129+50.00	321	1,268,345.6	266,588.0	422.00				Average	
		129+25.00	322	1,268,345.2	266,563.0	421.80				Average	
		129+00.00	323	1,268,344.9	266,538.0	421.60				Average	
		128+75.00	324	1,268,344.5	266,513.0	421.30				Average	
		128+50.00	325	1,268,344.2	266,488.0	421.10				Average	
		128+25.00	326	1,268,343.8	266,463.0	420.90				Average	
		128+00.00	327	1,268,343.5	266,438.0	420.70				Average	
		127+75.00	328	1,268,343.1	266,413.1	420.50				Average	
		127+50.00	329	1,268,342.8	266,388.1	420.20				Average	
		127+25.00	330	1,268,342.4	266,363.1	420.00				Average	
		127+00.00	331	1,268,342.1	266,338.1	419.80				Average	
		126+75.00	332	1,268,341.8	266,313.1	419.60				Average	
		126+50.00	333	1,268,341.4	266,288.1	419.40				Average	
		126+25.00	334	1,268,341.0	266,263.1	419.10				Average	
		126+00.00	335	1,268,340.8	266,238.1	418.90				Average	
		125+75.00	336	1,268,340.2	266,213.1	418.70				Average	
		125+50.00	337	1,268,340.0	266,188.1	418.50				Average	
		125+25.00	338	1,268,339.6	266,163.1	418.30				Average	
		125+00.00	339	1,268,339.2	266,138.1	418.00					
Aurora Avenue SB to 128th	50.0	137+75.00	952	1,268,356.2	267,413.0	435.70				Average	
		137+50.00	951	1,268,356.0	267,388.0	435.70				Average	
		137+25.00	349	1,268,355.8	267,363.0	435.70				Average	
		137+00.00	348	1,268,355.4	267,338.0	435.70				Average	
		136+75.00	347	1,268,355.1	267,313.0	435.70				Average	
		136+50.00	346	1,268,354.8	267,288.0	435.50				Average	
		136+25.00	345	1,268,354.4	267,263.0	435.30				Average	
		136+00.00	344	1,268,354.1	267,238.0	435.00				Average	
		135+75.00	343	1,268,353.8	267,213.0	434.80				Average	
		135+50.00	342	1,268,353.5	267,188.0	434.30				Average	

		135+25.00	341	1,268,353.2	267,163.0	433.80				Average	
		135+00.00	340	1,268,352.8	267,138.0	433.00					
Aurora Avenue SB to 130 th	50.0	151+25.00	350	1,268,374.8	268,762.8	442.90				Average	
		151+00.00	351	1,268,374.2	268,737.8	442.40				Average	
		150+75.00	352	1,268,374.0	268,712.8	441.90				Average	
		150+50.00	353	1,268,373.6	268,687.8	441.50				Average	
		150+25.00	354	1,268,373.2	268,662.8	441.20				Average	
		150+00.00	355	1,268,372.9	268,637.8	440.90				Average	
		149+75.00	356	1,268,372.6	268,612.9	440.60				Average	
		149+50.00	357	1,268,372.2	268,587.9	440.40				Average	
		149+25.00	358	1,268,371.8	268,562.9	440.10				Average	
		149+00.00	359	1,268,371.5	268,537.9	439.90				Average	
		148+75.00	360	1,268,371.1	268,512.9	439.60				Average	
		148+50.00	361	1,268,370.8	268,487.9	439.30				Average	
		148+25.00	362	1,268,370.4	268,462.9	439.10				Average	
		148+00.00	363	1,268,370.1	268,437.9	438.80				Average	
		147+75.00	364	1,268,369.8	268,412.9	438.60				Average	
		147+50.00	365	1,268,369.2	268,387.9	438.30				Average	
		147+25.00	366	1,268,369.0	268,362.9	438.10				Average	
		147+00.00	367	1,268,368.6	268,337.9	437.80				Average	
		146+75.00	368	1,268,368.2	268,312.9	437.60				Average	
		146+50.00	369	1,268,367.9	268,287.9	437.30				Average	
		146+25.00	370	1,268,367.6	268,262.9	437.10				Average	
		146+00.00	371	1,268,367.2	268,237.9	436.80				Average	
		145+75.00	372	1,268,366.8	268,212.9	436.60				Average	
		145+50.00	373	1,268,366.5	268,187.9	436.40				Average	
		145+25.00	374	1,268,366.1	268,162.9	436.20				Average	
		145+00.00	375	1,268,365.8	268,137.9	436.10				Average	
		144+75.00	376	1,268,365.4	268,112.9	436.10				Average	
		144+50.00	377	1,268,365.1	268,087.9	436.10				Average	
		144+25.00	378	1,268,364.8	268,062.9	436.00				Average	
		144+00.00	379	1,268,364.2	268,037.9	436.00				Average	
		143+75.00	380	1,268,364.0	268,012.9	436.00				Average	
		143+50.00	381	1,268,363.6	267,987.9	436.00				Average	
		143+25.00	382	1,268,363.2	267,962.9	436.00				Average	
		143+00.00	383	1,268,362.9	267,937.9	436.00				Average	
		142+75.00	384	1,268,362.6	267,912.9	436.00				Average	
		142+50.00	385	1,268,362.2	267,887.9	436.00				Average	
		142+25.00	386	1,268,361.9	267,862.9	435.90				Average	

		142+00.00	387	1,268,361.5	267,837.9	435.90				Average	
		141+75.00	388	1,268,361.1	267,812.9	435.90				Average	
		141+50.00	389	1,268,360.8	267,787.9	435.90				Average	
		141+25.00	390	1,268,360.4	267,762.9	435.90				Average	
		141+00.00	391	1,268,360.1	267,737.9	435.90				Average	
		140+75.00	392	1,268,359.8	267,712.9	435.90				Average	
		140+50.00	393	1,268,359.4	267,687.9	435.90				Average	
		140+25.00	394	1,268,359.0	267,662.9	435.90				Average	
		140+00.00	395	1,268,358.6	267,637.9	435.80				Average	
		139+75.00	396	1,268,358.2	267,613.0	435.80				Average	
		139+50.00	397	1,268,357.9	267,588.0	435.80				Average	
		139+25.00	398	1,268,357.6	267,563.0	435.80				Average	
		139+00.00	399	1,268,357.2	267,538.0	435.80				Average	
		138+75.00	400	1,268,357.1	267,513.0	435.80				Average	
		138+50.00	401	1,268,356.9	267,488.0	435.80				Average	
		138+25.00	402	1,268,356.8	267,463.0	435.80				Average	
		138+00.00	403	1,268,356.6	267,438.0	435.70					
Aurora Avenue SB to 135th	50.0	157+75.00	404	1,268,379.9	269,412.8	464.60				Average	
		157+50.00	405	1,268,379.8	269,387.8	463.70				Average	
		157+25.00	406	1,268,379.5	269,362.8	462.80				Average	
		157+00.00	407	1,268,379.2	269,337.8	461.90				Average	
		156+75.00	408	1,268,379.0	269,312.8	461.10				Average	
		156+50.00	409	1,268,378.8	269,287.8	460.20				Average	
		156+25.00	410	1,268,378.6	269,262.8	459.30				Average	
		156+00.00	411	1,268,378.4	269,237.8	458.40				Average	
		155+75.00	412	1,268,378.2	269,212.8	457.50				Average	
		155+50.00	413	1,268,377.9	269,187.8	456.60				Average	
		155+25.00	414	1,268,377.8	269,162.8	455.80				Average	
		155+00.00	415	1,268,377.5	269,137.8	454.90				Average	
		154+75.00	416	1,268,377.2	269,112.8	454.00				Average	
		154+50.00	417	1,268,377.1	269,087.8	453.10				Average	
		154+25.00	418	1,268,376.9	269,062.8	452.20				Average	
		154+00.00	419	1,268,376.6	269,037.8	451.40				Average	
		153+75.00	420	1,268,376.4	269,012.8	450.50				Average	
		153+50.00	421	1,268,376.2	268,987.8	449.60				Average	
		153+25.00	422	1,268,376.0	268,962.8	448.70				Average	
		153+00.00	423	1,268,375.8	268,937.8	447.80				Average	
		152+75.00	424	1,268,375.6	268,912.8	447.00				Average	
		152+50.00	425	1,268,375.2	268,887.8	446.10				Average	

		152+25.00	426	1,268,375.1	268,862.8	445.30				Average	
		152+00.00	427	1,268,375.0	268,837.8	444.60				Average	
		151+75.00	428	1,268,374.9	268,812.8	443.90				Average	
		151+50.00	429	1,268,374.8	268,787.8	443.40					
Aurora Avenue SB to 137th	50.0	164+50.00	430	1,268,388.0	270,087.8	476.90				Average	
		164+25.00	431	1,268,387.8	270,062.8	476.60				Average	
		164+00.00	432	1,268,387.2	270,037.8	476.30				Average	
		163+75.00	433	1,268,387.0	270,012.8	476.00				Average	
		163+50.00	434	1,268,386.8	269,987.8	475.70				Average	
		163+25.00	435	1,268,386.4	269,962.8	475.40				Average	
		163+00.00	436	1,268,386.1	269,937.8	475.10				Average	
		162+75.00	437	1,268,385.8	269,912.8	474.80				Average	
		162+50.00	438	1,268,385.4	269,887.8	474.50				Average	
		162+25.00	439	1,268,385.1	269,862.8	474.20				Average	
		162+00.00	440	1,268,384.8	269,837.8	473.90				Average	
		161+75.00	441	1,268,384.5	269,812.8	473.60				Average	
		161+50.00	444	1,268,384.2	269,787.8	473.30				Average	
		161+25.00	445	1,268,383.9	269,762.8	473.00				Average	
		161+00.00	446	1,268,383.6	269,737.8	472.70				Average	
		160+75.00	447	1,268,383.2	269,712.8	472.40				Average	
		160+50.00	448	1,268,383.0	269,687.8	472.10				Average	
		160+25.00	449	1,268,382.8	269,662.8	471.80				Average	
		160+00.00	450	1,268,382.4	269,637.8	471.30				Average	
		159+75.00	451	1,268,382.1	269,612.8	470.80				Average	
		159+50.00	452	1,268,381.8	269,587.8	470.20				Average	
		159+25.00	453	1,268,381.5	269,562.8	469.60				Average	
		159+00.00	454	1,268,381.2	269,537.8	468.90				Average	
		158+75.00	455	1,268,380.9	269,512.8	468.00				Average	
		158+50.00	456	1,268,380.6	269,487.8	467.20				Average	
		158+25.00	457	1,268,380.2	269,462.8	466.30				Average	
		158+00.00	458	1,268,380.1	269,437.8	465.40					
Aurora Avenue SB to 140th	50.0	177+75.00	459	1,268,401.9	271,412.7	483.80				Average	
		177+50.00	460	1,268,401.8	271,387.7	484.00				Average	
		177+25.00	461	1,268,401.5	271,362.7	484.10				Average	
		177+00.00	462	1,268,401.2	271,337.7	484.30				Average	
		176+75.00	463	1,268,401.1	271,312.7	484.50				Average	
		176+50.00	464	1,268,400.9	271,287.7	484.60				Average	
		176+25.00	465	1,268,400.8	271,262.7	484.80				Average	
		176+00.00	466	1,268,400.5	271,237.7	484.90				Average	

		175+75.00	467	1,268,400.2	271,212.7	485.10				Average	
		175+50.00	468	1,268,400.1	271,187.7	485.20				Average	
		175+25.00	469	1,268,399.9	271,162.7	485.40				Average	
		175+00.00	470	1,268,399.8	271,137.7	485.50				Average	
		174+75.00	471	1,268,399.5	271,112.7	485.60				Average	
		174+50.00	472	1,268,399.2	271,087.7	485.70				Average	
		174+25.00	473	1,268,399.1	271,062.7	485.70				Average	
		174+00.00	474	1,268,398.9	271,037.7	485.70				Average	
		173+75.00	475	1,268,398.8	271,012.7	485.80				Average	
		173+50.00	476	1,268,398.5	270,987.7	485.80				Average	
		173+25.00	477	1,268,398.2	270,962.7	485.80				Average	
		173+00.00	478	1,268,398.1	270,937.7	485.90				Average	
		172+75.00	479	1,268,397.9	270,912.7	485.90				Average	
		172+50.00	480	1,268,397.8	270,887.7	485.90				Average	
		172+25.00	481	1,268,397.5	270,862.7	486.00				Average	
		172+00.00	482	1,268,397.2	270,837.7	486.00				Average	
		171+75.00	483	1,268,397.1	270,812.7	485.70				Average	
		171+50.00	484	1,268,396.9	270,787.7	485.50				Average	
		171+25.00	485	1,268,396.6	270,762.7	485.20				Average	
		171+00.00	486	1,268,396.2	270,737.7	485.00				Average	
		170+75.00	487	1,268,395.9	270,712.7	484.70				Average	
		170+50.00	488	1,268,395.6	270,687.7	484.40				Average	
		170+25.00	489	1,268,395.2	270,662.7	484.10				Average	
		170+00.00	490	1,268,395.0	270,637.7	483.70				Average	
		169+75.00	491	1,268,394.6	270,612.7	483.40				Average	
		169+50.00	492	1,268,394.2	270,587.7	483.10				Average	
		169+25.00	493	1,268,394.0	270,562.7	482.80				Average	
		169+00.00	494	1,268,393.8	270,537.7	482.50				Average	
		168+75.00	495	1,268,393.4	270,512.7	482.20				Average	
		168+50.00	496	1,268,393.1	270,487.7	481.90				Average	
		168+25.00	497	1,268,392.8	270,462.7	481.50				Average	
		168+00.00	498	1,268,392.4	270,437.7	481.20				Average	
		167+75.00	499	1,268,392.1	270,412.7	480.90				Average	
		167+50.00	500	1,268,391.8	270,387.7	480.60				Average	
		167+25.00	501	1,268,391.5	270,362.7	480.30				Average	
		167+00.00	502	1,268,391.2	270,337.7	480.00				Average	
		166+75.00	503	1,268,390.8	270,312.7	479.70				Average	
		166+50.00	504	1,268,390.5	270,287.7	479.40				Average	
		166+25.00	505	1,268,390.2	270,262.8	479.10				Average	

		166+00.00	506	1,268,389.9	270,237.8	478.80				Average	
		165+75.00	511	1,268,389.6	270,212.8	478.50				Average	
		165+50.00	512	1,268,389.2	270,187.8	478.20				Average	
		165+25.00	513	1,268,388.9	270,162.8	477.90				Average	
		165+00.00	514	1,268,388.6	270,137.8	477.60				Average	
		164+75.00	515	1,268,388.2	270,112.8	477.20					
Aurora Avenue SB to north of 145th	50.0	179+79.04	516	1,268,403.2	271,616.7	482.50				Average	
		179+75.00	517	1,268,403.2	271,612.7	482.60				Average	
		179+50.00	518	1,268,403.1	271,587.7	482.70				Average	
		179+25.00	519	1,268,402.9	271,562.7	482.90				Average	
		179+00.00	520	1,268,402.8	271,537.7	483.00				Average	
		178+75.00	521	1,268,402.6	271,512.7	483.20				Average	
		178+50.00	522	1,268,402.4	271,487.7	483.40				Average	
		178+25.00	523	1,268,402.2	271,462.7	483.50				Average	
		178+00.00	524	1,268,402.1	271,437.7	483.70					
Aurora Avenue NB to 115th	50.0	82+46.00	525	1,268,346.6	261,888.9	333.90				Average	
		82+50.00	526	1,268,346.6	261,892.9	333.90				Average	
		82+75.00	527	1,268,346.9	261,917.9	333.90				Average	
		83+00.00	528	1,268,347.1	261,942.9	333.90				Average	
		83+25.00	529	1,268,347.4	261,967.9	334.00				Average	
		83+50.00	530	1,268,347.6	261,992.9	334.00				Average	
		83+75.00	531	1,268,347.8	262,017.9	334.10				Average	
		84+00.00	532	1,268,348.1	262,042.9	334.10				Average	
		84+25.00	533	1,268,348.2	262,067.9	334.20				Average	
		84+50.00	534	1,268,348.5	262,092.9	334.30				Average	
		84+75.00	535	1,268,348.8	262,117.9	334.30				Average	
		85+00.00	536	1,268,349.0	262,142.9	334.40				Average	
		85+25.00	537	1,268,349.2	262,167.9	334.60				Average	
		85+50.00	538	1,268,349.5	262,192.9	335.20				Average	
		85+75.00	539	1,268,349.8	262,217.9	335.70				Average	
		86+00.00	540	1,268,350.0	262,242.9	336.60				Average	
		86+25.00	541	1,268,350.2	262,267.9	337.50				Average	
		86+50.00	542	1,268,350.5	262,292.9	338.40				Average	
		86+75.00	543	1,268,350.8	262,317.9	339.20				Average	
		87+00.00	544	1,268,350.9	262,342.9	340.10				Average	
		87+25.00	545	1,268,351.2	262,367.9	341.00				Average	
		87+50.00	546	1,268,351.4	262,392.9	341.90				Average	
		87+75.00	547	1,268,351.6	262,417.9	342.80				Average	
		88+00.00	548	1,268,351.9	262,442.9	343.70				Average	

		88+25.00	549	1,268,352.1	262,467.9	344.50				Average	
		88+50.00	550	1,268,352.4	262,492.9	345.40				Average	
		88+75.00	551	1,268,352.6	262,517.9	346.30				Average	
		89+00.00	552	1,268,352.8	262,542.9	347.20				Average	
		89+25.00	553	1,268,353.1	262,567.9	348.10				Average	
		89+50.00	554	1,268,353.2	262,592.9	349.00				Average	
		89+75.00	555	1,268,353.6	262,617.9	349.90				Average	
		90+00.00	556	1,268,353.8	262,642.8	350.90				Average	
		90+25.00	557	1,268,354.0	262,667.8	351.80				Average	
		90+50.00	558	1,268,354.2	262,692.8	352.70				Average	
		90+75.00	559	1,268,354.5	262,717.8	353.70				Average	
		91+00.00	560	1,268,354.8	262,742.8	354.60				Average	
		91+25.00	561	1,268,355.0	262,767.8	355.50				Average	
		91+50.00	562	1,268,355.2	262,792.8	356.50				Average	
		91+75.00	563	1,268,355.4	262,817.8	357.40				Average	
		92+00.00	564	1,268,355.6	262,842.8	358.30				Average	
		92+25.00	565	1,268,355.8	262,867.8	359.10				Average	
		92+50.00	566	1,268,356.0	262,892.8	360.00				Average	
		92+75.00	567	1,268,356.2	262,917.8	360.90				Average	
		93+00.00	568	1,268,356.4	262,942.8	361.80				Average	
		93+25.00	569	1,268,356.6	262,967.8	362.60				Average	
		93+50.00	570	1,268,356.8	262,992.8	363.40				Average	
		93+75.00	571	1,268,357.0	263,017.8	363.90				Average	
		94+00.00	572	1,268,357.2	263,042.8	364.40				Average	
		94+25.00	573	1,268,357.4	263,067.8	364.90				Average	
		94+50.00	574	1,268,357.6	263,092.8	365.30				Average	
		94+75.00	575	1,268,357.8	263,117.8	365.50				Average	
		95+00.00	576	1,268,358.0	263,142.8	365.50				Average	
		95+25.00	577	1,268,358.2	263,167.8	365.50				Average	
		95+50.00	578	1,268,358.4	263,192.8	365.50				Average	
		95+75.00	923	1,268,358.6	263,217.8	365.60				Average	
		96+00.00	924	1,268,358.8	263,242.8	365.60				Average	
		96+25.00	925	1,268,359.0	263,267.8	365.60				Average	
		96+50.00	926	1,268,359.2	263,292.8	365.70				Average	
		96+75.00	927	1,268,359.4	263,317.8	365.70				Average	
		97+00.00	928	1,268,359.5	263,342.8	365.70				Average	
		97+25.00	929	1,268,359.8	263,367.8	365.80				Average	
		97+50.00	930	1,268,359.9	263,392.8	365.80				Average	
		97+75.00	931	1,268,360.1	263,417.8	365.80				Average	

		98+00.00	932	1,268,360.2	263,442.8	365.90				Average	
		98+25.00	933	1,268,360.5	263,467.8	366.00					
Aurora Avenue NB to 125th	50.0	98+50.00	579	1,268,360.8	263,492.8	366.00				Average	
		98+75.00	580	1,268,360.9	263,517.8	366.10				Average	
		99+00.00	581	1,268,361.1	263,542.8	366.20				Average	
		99+25.00	582	1,268,361.2	263,567.8	366.30				Average	
		99+50.00	583	1,268,361.5	263,592.8	366.40				Average	
		99+75.00	584	1,268,361.8	263,617.8	366.50				Average	
		100+00.00	585	1,268,361.9	263,642.8	366.60				Average	
		100+25.00	586	1,268,362.1	263,667.8	366.80				Average	
		100+50.00	587	1,268,362.2	263,692.8	367.10				Average	
		100+75.00	588	1,268,362.5	263,717.8	367.40				Average	
		101+00.00	589	1,268,362.8	263,742.8	367.60				Average	
		101+25.00	590	1,268,362.9	263,767.8	368.00				Average	
		101+50.00	591	1,268,363.1	263,792.8	368.50				Average	
		101+75.00	592	1,268,363.2	263,817.8	368.90				Average	
		102+00.00	593	1,268,363.5	263,842.8	369.40				Average	
		102+25.00	594	1,268,363.8	263,867.8	370.10				Average	
		102+50.00	595	1,268,363.9	263,892.8	370.70				Average	
		102+75.00	596	1,268,364.1	263,917.8	371.40				Average	
		103+00.00	597	1,268,364.2	263,942.8	372.10				Average	
		103+25.00	598	1,268,364.5	263,967.8	372.90				Average	
		103+50.00	599	1,268,364.8	263,992.8	373.60				Average	
		103+75.00	600	1,268,364.9	264,017.8	374.40				Average	
		104+00.00	601	1,268,365.1	264,042.8	375.20				Average	
		104+25.00	602	1,268,365.2	264,067.8	375.90				Average	
		104+50.00	603	1,268,365.5	264,092.8	376.70				Average	
		104+75.00	604	1,268,365.8	264,117.8	377.50				Average	
		105+00.00	605	1,268,365.9	264,142.8	378.20				Average	
		105+25.00	606	1,268,366.1	264,167.8	379.00				Average	
		105+50.00	607	1,268,366.2	264,192.8	379.70				Average	
		105+75.00	608	1,268,366.5	264,217.8	380.50				Average	
		106+00.00	609	1,268,366.8	264,242.8	381.30				Average	
		106+25.00	610	1,268,366.8	264,267.8	382.00				Average	
		106+50.00	611	1,268,367.0	264,292.8	382.80				Average	
		106+75.00	612	1,268,367.2	264,317.8	383.60				Average	
		107+00.00	613	1,268,367.4	264,342.8	384.30				Average	
		107+25.00	614	1,268,367.6	264,367.8	385.10				Average	
		107+50.00	615	1,268,367.8	264,392.8	385.90				Average	

		107+75.00	616	1,268,368.0	264,417.8	386.60				Average	
		108+00.00	617	1,268,368.2	264,442.8	387.40				Average	
		108+25.00	618	1,268,368.4	264,467.8	388.20				Average	
		108+50.00	619	1,268,368.6	264,492.8	389.00				Average	
		108+75.00	620	1,268,368.8	264,517.8	389.80				Average	
		109+00.00	621	1,268,369.0	264,542.8	390.60				Average	
		109+25.00	622	1,268,369.2	264,567.8	391.40				Average	
		109+50.00	623	1,268,369.4	264,592.8	392.20				Average	
		109+75.00	624	1,268,369.6	264,617.8	393.00				Average	
		110+00.00	625	1,268,369.8	264,642.8	393.80				Average	
		110+25.00	626	1,268,370.0	264,667.8	394.60				Average	
		110+50.00	627	1,268,370.2	264,692.8	395.40				Average	
		110+75.00	628	1,268,370.4	264,717.8	396.20				Average	
		111+00.00	629	1,268,370.6	264,742.8	397.00				Average	
		111+25.00	630	1,268,370.8	264,767.8	397.70				Average	
		111+50.00	631	1,268,371.0	264,792.8	398.50				Average	
		111+75.00	632	1,268,371.2	264,817.8	399.30				Average	
		112+00.00	633	1,268,371.4	264,842.8	400.10				Average	
		112+25.00	634	1,268,371.6	264,867.8	400.90				Average	
		112+50.00	635	1,268,371.8	264,892.8	401.70				Average	
		112+75.00	636	1,268,372.0	264,917.8	402.50				Average	
		113+00.00	637	1,268,372.2	264,942.8	403.30				Average	
		113+25.00	638	1,268,372.4	264,967.8	404.10				Average	
		113+50.00	639	1,268,372.6	264,992.8	404.90				Average	
		113+75.00	640	1,268,372.9	265,017.8	405.60				Average	
		114+00.00	641	1,268,373.1	265,042.8	406.30				Average	
		114+25.00	642	1,268,373.2	265,067.8	407.10				Average	
		114+50.00	643	1,268,373.5	265,092.8	407.80				Average	
		114+75.00	644	1,268,373.8	265,117.8	408.30				Average	
		115+00.00	645	1,268,373.9	265,142.8	408.80				Average	
		115+25.00	646	1,268,374.1	265,167.8	409.30				Average	
		115+50.00	647	1,268,374.2	265,192.8	409.70				Average	
		115+75.00	648	1,268,374.5	265,217.8	410.00				Average	
		116+00.00	649	1,268,374.8	265,242.8	410.30				Average	
		116+25.00	650	1,268,375.0	265,267.8	410.60				Average	
		116+50.00	651	1,268,375.2	265,292.8	410.90				Average	
		116+75.00	652	1,268,375.4	265,317.8	411.10				Average	
		117+00.00	653	1,268,375.6	265,342.8	411.30				Average	
		117+25.00	654	1,268,375.8	265,367.8	411.50				Average	

		117+50.00	655	1,268,376.0	265,392.8	411.70				Average	
		117+75.00	656	1,268,376.2	265,417.8	411.90				Average	
		118+00.00	657	1,268,376.4	265,442.8	412.20				Average	
		118+25.00	658	1,268,376.6	265,467.8	412.40				Average	
		118+50.00	659	1,268,376.8	265,492.8	412.60				Average	
		118+75.00	660	1,268,377.0	265,517.8	412.80				Average	
		119+00.00	661	1,268,377.2	265,542.8	413.00				Average	
		119+25.00	662	1,268,377.5	265,567.8	413.30				Average	
		119+50.00	663	1,268,377.8	265,592.8	413.50				Average	
		119+75.00	664	1,268,377.9	265,617.8	413.70				Average	
		120+00.00	665	1,268,378.1	265,642.8	413.90				Average	
		120+25.00	666	1,268,378.2	265,667.8	414.10				Average	
		120+50.00	666	1,268,378.5	265,692.7	414.30				Average	
		120+75.00	668	1,268,378.8	265,717.7	414.50				Average	
		121+00.00	669	1,268,378.9	265,742.7	414.80				Average	
		121+25.00	670	1,268,379.1	265,767.7	415.00				Average	
		121+50.00	671	1,268,379.4	265,792.7	415.20				Average	
		121+75.00	672	1,268,379.6	265,817.7	415.40				Average	
		122+00.00	673	1,268,379.8	265,842.7	415.60				Average	
		122+25.00	674	1,268,380.0	265,867.7	415.80				Average	
		122+50.00	675	1,268,380.2	265,892.7	416.00				Average	
		122+75.00	676	1,268,380.4	265,917.7	416.30				Average	
		123+00.00	677	1,268,380.6	265,942.7	416.50				Average	
		123+25.00	678	1,268,380.8	265,967.7	416.70				Average	
		123+50.00	679	1,268,381.0	265,992.7	416.90				Average	
		123+75.00	680	1,268,381.2	266,017.7	417.10				Average	
		124+00.00	681	1,268,381.5	266,042.7	417.30				Average	
		124+25.00	682	1,268,381.8	266,067.7	417.50				Average	
		124+50.00	683	1,268,381.9	266,092.7	417.80				Average	
		124+75.00	684	1,268,382.1	266,117.7	418.00					
Aurora Avenue NB to 128th	50.0	125+00.00	685	1,268,382.2	266,142.7	418.20				Average	
		125+25.00	686	1,268,382.5	266,167.7	418.40				Average	
		125+50.00	687	1,268,382.8	266,192.7	418.60				Average	
		125+75.00	688	1,268,383.1	266,217.7	418.80				Average	
		126+00.00	689	1,268,383.5	266,242.7	419.00				Average	
		126+25.00	690	1,268,383.8	266,267.7	419.30				Average	
		126+50.00	691	1,268,384.1	266,292.7	419.50				Average	
		126+75.00	692	1,268,384.5	266,317.7	419.70				Average	
		127+00.00	693	1,268,384.8	266,342.7	419.90				Average	

		127+25.00	694	1,268,385.2	266,367.7	420.10				Average	
		127+50.00	695	1,268,385.5	266,392.7	420.30				Average	
		127+75.00	696	1,268,385.9	266,417.7	420.60				Average	
		128+00.00	697	1,268,386.2	266,442.7	420.80				Average	
		128+25.00	698	1,268,386.5	266,467.7	421.00				Average	
		128+50.00	699	1,268,386.9	266,492.7	421.20				Average	
		128+75.00	700	1,268,387.2	266,517.7	421.40				Average	
		129+00.00	701	1,268,387.6	266,542.7	421.60				Average	
		129+25.00	702	1,268,387.9	266,567.7	421.80				Average	
		129+50.00	703	1,268,388.2	266,592.7	422.10				Average	
		129+75.00	704	1,268,388.6	266,617.7	422.30				Average	
		130+00.00	705	1,268,388.9	266,642.7	422.50				Average	
		130+25.00	706	1,268,389.2	266,667.7	422.70				Average	
		130+50.00	707	1,268,389.6	266,692.7	422.90				Average	
		130+75.00	708	1,268,390.0	266,717.7	423.10				Average	
		131+00.00	709	1,268,390.2	266,742.7	423.30				Average	
		131+25.00	710	1,268,390.6	266,767.7	423.60				Average	
		131+50.00	711	1,268,391.0	266,792.7	424.00				Average	
		131+75.00	712	1,268,391.2	266,817.7	424.30				Average	
		132+00.00	713	1,268,391.8	266,842.7	424.60				Average	
		132+25.00	714	1,268,392.0	266,867.7	425.00				Average	
		132+50.00	715	1,268,392.4	266,892.7	425.70				Average	
		132+75.00	716	1,268,392.8	266,917.7	426.50				Average	
		133+00.00	717	1,268,393.0	266,942.7	427.20				Average	
		133+25.00	718	1,268,393.4	266,967.7	428.00				Average	
		133+50.00	719	1,268,393.8	266,992.7	428.70				Average	
		133+75.00	720	1,268,394.1	267,017.7	429.40				Average	
		134+00.00	721	1,268,394.4	267,042.7	430.20				Average	
		134+25.00	722	1,268,394.8	267,067.6	430.90				Average	
		134+50.00	723	1,268,395.1	267,092.6	431.70				Average	
		134+75.00	724	1,268,395.4	267,117.6	432.40					
Aurora Avenue NB to 130th	50.0	135+00.00	725	1,268,395.8	267,142.6	433.20				Average	
		135+25.00	726	1,268,396.1	267,167.6	434.00				Average	
		135+50.00	727	1,268,396.4	267,192.6	434.50				Average	
		135+75.00	728	1,268,396.8	267,217.6	435.00				Average	
		136+00.00	729	1,268,397.1	267,242.6	435.50				Average	
		136+25.00	730	1,268,397.4	267,267.6	435.60				Average	
		136+50.00	731	1,268,397.8	267,292.6	435.70				Average	
		136+75.00	732	1,268,398.0	267,317.6	435.80				Average	

		137+00.00	733	1,268,398.4	267,342.6	435.80				Average	
		137+25.00	734	1,268,398.8	267,367.6	435.80				Average	
		137+50.00	735	1,268,399.0	267,392.6	435.80				Average	
		137+75.00	736	1,268,399.2	267,417.6	435.80					
Aurora Avenue NB to 135th	50.0	138+00.00	737	1,268,399.8	267,442.6	435.80				Average	
		138+25.00	738	1,268,400.0	267,467.6	435.80				Average	
		138+50.00	739	1,268,400.2	267,492.6	435.90				Average	
		138+75.00	740	1,268,400.6	267,517.6	435.90				Average	
		139+00.00	741	1,268,400.9	267,542.6	435.90				Average	
		139+25.00	742	1,268,401.2	267,567.6	435.90				Average	
		139+50.00	743	1,268,401.6	267,592.6	435.90				Average	
		139+75.00	747	1,268,401.9	267,617.6	435.90				Average	
		140+00.00	748	1,268,402.2	267,642.6	435.90				Average	
		140+25.00	749	1,268,402.6	267,667.6	435.90				Average	
		140+50.00	750	1,268,402.9	267,692.6	435.90				Average	
		140+75.00	751	1,268,403.2	267,717.6	435.90				Average	
		141+00.00	752	1,268,403.5	267,742.6	435.90				Average	
		141+25.00	753	1,268,403.8	267,767.6	435.90				Average	
		141+50.00	754	1,268,404.2	267,792.6	435.90				Average	
		141+75.00	755	1,268,404.5	267,817.6	435.90				Average	
		142+00.00	756	1,268,404.8	267,842.6	435.90				Average	
		142+25.00	757	1,268,405.1	267,867.6	435.90				Average	
		142+50.00	758	1,268,405.5	267,892.6	435.90				Average	
		142+75.00	759	1,268,405.8	267,917.6	435.90				Average	
		143+00.00	760	1,268,406.1	267,942.6	435.90				Average	
		143+25.00	761	1,268,406.4	267,967.6	435.90				Average	
		143+50.00	762	1,268,406.8	267,992.6	435.90				Average	
		143+75.00	763	1,268,407.1	268,017.6	435.90				Average	
		144+00.00	764	1,268,407.4	268,042.6	435.90				Average	
		144+25.00	765	1,268,407.8	268,067.6	436.00				Average	
		144+50.00	766	1,268,408.0	268,092.6	436.00				Average	
		144+75.00	767	1,268,408.4	268,117.6	436.00				Average	
		145+00.00	768	1,268,408.8	268,142.6	436.00				Average	
		145+25.00	769	1,268,409.0	268,167.6	436.20				Average	
		145+50.00	770	1,268,409.2	268,192.6	436.50				Average	
		145+75.00	771	1,268,409.6	268,217.6	436.70				Average	
		146+00.00	772	1,268,409.9	268,242.6	436.90				Average	
		146+25.00	773	1,268,410.2	268,267.5	437.10				Average	
		146+50.00	774	1,268,410.5	268,292.5	437.40				Average	

		146+75.00	775	1,268,410.8	268,317.5	437.70				Average	
		147+00.00	776	1,268,411.1	268,342.5	437.90				Average	
		147+25.00	777	1,268,411.4	268,367.5	438.20				Average	
		147+50.00	778	1,268,411.8	268,392.5	438.40				Average	
		147+75.00	779	1,268,412.0	268,417.5	438.70				Average	
		148+00.00	780	1,268,412.4	268,442.5	438.90				Average	
		148+25.00	781	1,268,412.8	268,467.5	439.20				Average	
		148+50.00	782	1,268,413.0	268,492.5	439.40				Average	
		148+75.00	783	1,268,413.2	268,517.5	439.70				Average	
		149+00.00	784	1,268,413.6	268,542.5	440.00				Average	
		149+25.00	785	1,268,413.9	268,567.5	440.20				Average	
		149+50.00	786	1,268,414.2	268,592.5	440.50				Average	
		149+75.00	787	1,268,414.5	268,617.5	440.70				Average	
		150+00.00	788	1,268,414.8	268,642.5	441.00				Average	
		150+25.00	789	1,268,415.1	268,667.5	441.20				Average	
		150+50.00	790	1,268,415.4	268,692.5	441.70				Average	
		150+75.00	791	1,268,415.8	268,717.5	442.20				Average	
		151+00.00	792	1,268,416.0	268,742.5	442.70				Average	
		151+25.00	793	1,268,416.2	268,767.5	443.10					
Aurora Avenue NB to 137th	50.0	151+50.00	794	1,268,416.6	268,792.5	443.60				Average	
		151+75.00	795	1,268,417.0	268,817.5	444.10				Average	
		152+00.00	796	1,268,417.2	268,842.5	444.60				Average	
		152+25.00	797	1,268,417.6	268,867.5	445.40				Average	
		152+50.00	798	1,268,417.9	268,892.5	446.10				Average	
		152+75.00	799	1,268,418.2	268,917.5	446.90				Average	
		153+00.00	800	1,268,418.5	268,942.5	447.70				Average	
		153+25.00	801	1,268,418.8	268,967.5	448.60				Average	
		153+50.00	802	1,268,419.1	268,992.5	449.50				Average	
		153+75.00	803	1,268,419.4	269,017.5	450.40				Average	
		154+00.00	804	1,268,419.8	269,042.5	451.30				Average	
		154+25.00	805	1,268,420.0	269,067.5	452.20				Average	
		154+50.00	806	1,268,420.2	269,092.5	453.10				Average	
		154+75.00	807	1,268,420.6	269,117.5	454.00				Average	
		155+00.00	808	1,268,420.9	269,142.5	454.90				Average	
		155+25.00	809	1,268,421.2	269,167.5	455.80				Average	
		155+50.00	810	1,268,421.6	269,192.5	456.70				Average	
		155+75.00	811	1,268,421.9	269,217.5	457.70				Average	
		156+00.00	812	1,268,422.2	269,242.5	458.60				Average	
		156+25.00	813	1,268,422.5	269,267.5	459.50				Average	

		156+50.00	814	1,268,422.8	269,292.5	460.40				Average	
		156+75.00	815	1,268,423.1	269,317.5	461.30				Average	
		157+00.00	816	1,268,423.4	269,342.5	462.20				Average	
		157+25.00	817	1,268,423.8	269,367.5	463.10				Average	
		157+50.00	818	1,268,424.0	269,392.5	464.00				Average	
		157+75.00	819	1,268,424.2	269,417.5	464.90					
Auora Avenue NB to 140th	50.0	158+00.00	820	1,268,424.6	269,442.5	465.80				Average	
		158+25.00	821	1,268,424.9	269,467.5	466.70				Average	
		158+50.00	822	1,268,425.2	269,492.5	467.50				Average	
		158+75.00	823	1,268,425.5	269,517.5	468.40				Average	
		159+00.00	824	1,268,425.9	269,542.5	469.20				Average	
		159+25.00	825	1,268,426.2	269,567.5	469.90				Average	
		159+50.00	826	1,268,426.5	269,592.4	470.50				Average	
		159+75.00	827	1,268,426.8	269,617.4	471.20				Average	
		160+00.00	828	1,268,427.1	269,642.4	471.60				Average	
		160+25.00	829	1,268,427.4	269,667.4	472.00				Average	
		160+50.00	830	1,268,427.8	269,692.4	472.40				Average	
		160+75.00	831	1,268,428.0	269,717.4	472.70				Average	
		161+00.00	832	1,268,428.2	269,742.4	473.00				Average	
		161+25.00	833	1,268,428.6	269,767.4	473.30				Average	
		161+50.00	834	1,268,428.9	269,792.4	473.60				Average	
		161+75.00	835	1,268,429.2	269,817.4	473.90				Average	
		162+00.00	836	1,268,429.5	269,842.4	474.20				Average	
		162+25.00	837	1,268,429.8	269,867.4	474.50				Average	
		162+50.00	838	1,268,430.1	269,892.4	474.80				Average	
		162+75.00	839	1,268,430.5	269,917.4	475.10				Average	
		163+00.00	840	1,268,430.8	269,942.4	475.40				Average	
		163+25.00	841	1,268,431.1	269,967.4	475.70				Average	
		163+50.00	842	1,268,431.4	269,992.4	476.00				Average	
		163+75.00	843	1,268,431.8	270,017.4	476.30				Average	
		164+00.00	844	1,268,432.0	270,042.4	476.50				Average	
		164+25.00	845	1,268,432.2	270,067.4	476.80				Average	
		164+50.00	846	1,268,432.6	270,092.4	477.10					
Aurora Avenue NB to 145th	50.0	164+75.00	847	1,268,432.9	270,117.4	477.40				Average	
		165+00.00	848	1,268,433.2	270,142.4	477.70				Average	
		165+25.00	849	1,268,433.5	270,167.4	478.00				Average	
		165+50.00	850	1,268,433.8	270,192.4	478.30				Average	
		165+75.00	851	1,268,434.1	270,217.4	478.50				Average	
		166+00.00	852	1,268,434.4	270,242.4	478.80				Average	

		166+25.00	853	1,268,434.8	270,267.4	479.10				Average	
		166+50.00	854	1,268,435.1	270,292.4	479.40				Average	
		166+75.00	855	1,268,435.4	270,317.4	479.70				Average	
		167+00.00	856	1,268,435.8	270,342.4	480.00				Average	
		167+25.00	857	1,268,436.0	270,367.4	480.20				Average	
		167+50.00	858	1,268,436.2	270,392.4	480.60				Average	
		167+75.00	859	1,268,436.6	270,417.4	480.90				Average	
		168+00.00	860	1,268,436.9	270,442.4	481.20				Average	
		168+25.00	861	1,268,437.2	270,467.4	481.50				Average	
		168+50.00	862	1,268,437.5	270,492.4	481.80				Average	
		168+75.00	863	1,268,437.8	270,517.4	482.20				Average	
		169+00.00	864	1,268,438.1	270,542.4	482.50				Average	
		169+25.00	865	1,268,438.4	270,567.4	482.80				Average	
		169+50.00	866	1,268,438.8	270,592.4	483.10				Average	
		169+75.00	867	1,268,439.0	270,617.4	483.50				Average	
		170+00.00	868	1,268,439.4	270,642.4	483.80				Average	
		170+25.00	869	1,268,439.8	270,667.4	484.10				Average	
		170+50.00	870	1,268,440.0	270,692.4	484.40				Average	
		170+75.00	871	1,268,440.2	270,717.4	484.70				Average	
		171+00.00	872	1,268,440.6	270,742.4	484.90				Average	
		171+25.00	873	1,268,440.9	270,767.4	485.10				Average	
		171+50.00	874	1,268,441.2	270,792.4	485.30				Average	
		171+75.00	875	1,268,441.5	270,817.4	485.60				Average	
		172+00.00	876	1,268,441.8	270,842.4	485.70				Average	
		172+25.00	877	1,268,442.1	270,867.4	485.90				Average	
		172+50.00	878	1,268,442.4	270,892.4	485.90				Average	
		172+75.00	879	1,268,442.8	270,917.4	485.90				Average	
		173+00.00	880	1,268,443.0	270,942.3	485.90				Average	
		173+25.00	881	1,268,443.2	270,967.3	485.90				Average	
		173+50.00	882	1,268,443.6	270,992.3	485.90				Average	
		173+75.00	883	1,268,444.0	271,017.3	486.00				Average	
		174+00.00	884	1,268,444.2	271,042.3	485.90				Average	
		174+25.00	885	1,268,444.6	271,067.3	485.80				Average	
		174+50.00	886	1,268,444.9	271,092.3	485.60				Average	
		174+75.00	887	1,268,445.2	271,117.3	485.50				Average	
		175+00.00	888	1,268,445.5	271,142.3	485.30				Average	
		175+25.00	889	1,268,445.8	271,167.3	485.10				Average	
		175+50.00	890	1,268,446.1	271,192.3	485.00				Average	
		175+75.00	897	1,268,446.4	271,217.3	484.80				Average	

		176+00.00	898	1,268,446.8	271,242.3	484.70				Average	
		176+25.00	899	1,268,447.0	271,267.3	484.50				Average	
		176+50.00	900	1,268,447.2	271,292.3	484.30				Average	
		176+75.00	901	1,268,447.6	271,317.3	484.20				Average	
		177+00.00	902	1,268,447.9	271,342.3	484.00				Average	
		177+25.00	911	1,268,448.2	271,367.3	483.90				Average	
		177+50.00	912	1,268,448.6	271,392.3	483.70				Average	
		177+75.00	913	1,268,448.9	271,417.3	483.50					
Aurora Avenue NB north of 145th	50.0	178+00.00	914	1,268,449.2	271,442.3	483.40				Average	
		178+25.00	915	1,268,449.5	271,467.3	483.20				Average	
		178+50.00	916	1,268,449.8	271,492.3	483.10				Average	
		178+75.00	917	1,268,450.1	271,517.3	482.90				Average	
		179+00.00	918	1,268,450.4	271,542.3	482.70				Average	
		179+25.00	919	1,268,450.8	271,567.3	482.60				Average	
		179+50.00	920	1,268,451.0	271,592.3	482.40				Average	
		179+75.00	921	1,268,451.2	271,617.3	482.30				Average	
		179+78.35	922	1,268,451.4	271,620.6	482.20					
N. 145th Street East of Aurora WB	36.0	point935	935	1,268,482.1	271,442.8	483.50				Average	
		point936	936	1,268,966.8	271,441.4	483.50					
N. 145 th Street East of Aurora EB	24.0	point937	937	1,268,964.1	271,414.7	483.50				Average	
		point938	938	1,268,476.9	271,414.7	483.50					
N. 145th Street West of Aurora EB	36.0	point939	939	1,268,376.8	271,413.4	483.50				Average	
		point940	940	1,268,035.0	271,413.4	483.50					
N. 145th Street West of Aurora WB	24.0	point941	941	1,268,030.9	271,449.4	483.50				Average	
		point942	942	1,268,370.0	271,445.4	483.50					
N. 125th Street East of Aurora WB	24.0	point943	943	1,268,974.5	266,161.7	418.00				Average	
		point944	944	1,268,404.6	266,156.0	418.00					
N. 125 th Street West of Aurora WB	24.0	point945	945	1,268,287.2	266,153.1	418.00				Average	
		point946	946	1,267,771.8	266,153.1	418.00					
N. 125th Street West of Aurora EB	24.0	point947	947	1,267,757.4	266,107.3	418.00				Average	
		point948	948	1,268,284.4	266,107.3	418.00					
N. 125th Street East of Aurora EB	12.0	point949	949	1,268,413.2	266,110.2	418.00				Average	
		point950	950	1,268,954.5	266,110.2	418.00					
N 130th Street East of Aurora WB	36.0	point955	955	1,268,826.8	267,424.3	435.80				Average	
		point956	956	1,268,409.0	267,436.7	435.80					
N. 130th Street West of Auora WB	24.0	point957	957	1,268,333.1	267,446.0	435.80				Average	
		point958	958	1,267,986.5	267,446.0	435.80					
N. 130th Street West of Aurora EB	36.0	point959	959	1,267,989.6	267,419.7	435.80				Average	
		point960	960	1,268,333.1	267,419.7	435.80					

N. 130th Street East of Aurora EB	24.0	point961	961	1,268,412.0	267,407.3	435.80				Average	
		point962	962	1,268,811.2	267,393.3	435.80					

CH2M HILL **16 May 2006**
Natalie LIljenwall **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **For City of Seattle**
RUN: **Aurora Avenue North**

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
Aurora Avenue SB to south of 112th	98+25.00	13	1580	35	16	35	16	35	9	35	3	35
	98+00.00	14	1580	35	16	35	16	35	9	35	3	35
	97+75.00	15	1580	35	16	35	16	35	9	35	3	35
	97+50.00	16	1580	35	16	35	16	35	9	35	3	35
	97+25.00	17	1580	35	16	35	16	35	9	35	3	35
	97+00.00	18	1580	35	16	35	16	35	9	35	3	35
	96+75.00	19	1580	35	16	35	16	35	9	35	3	35
	96+50.00	20	1580	35	16	35	16	35	9	35	3	35
	96+25.00	21	1580	35	16	35	16	35	9	35	3	35
	96+00.00	22	1580	35	16	35	16	35	9	35	3	35
	95+75.00	23	1580	35	16	35	16	35	9	35	3	35
	95+50.00	24	1580	35	16	35	16	35	9	35	3	35
	95+25.00	25	1580	35	16	35	16	35	9	35	3	35
	95+00.00	26	1580	35	16	35	16	35	9	35	3	35
	94+75.00	27	1580	35	16	35	16	35	9	35	3	35
	94+50.00	28	1580	35	16	35	16	35	9	35	3	35
	94+25.00	29	1580	35	16	35	16	35	9	35	3	35
	94+00.00	30	1580	35	16	35	16	35	9	35	3	35
	93+75.00	31	1580	35	16	35	16	35	9	35	3	35
	93+50.00	32	1580	35	16	35	16	35	9	35	3	35
	93+25.00	33	1580	35	16	35	16	35	9	35	3	35
	93+00.00	34	1580	35	16	35	16	35	9	35	3	35
	92+75.00	35	1580	35	16	35	16	35	9	35	3	35

	92+50.00	36	1580	35	16	35	16	35	9	35	3	35
	92+25.00	37	1580	35	16	35	16	35	9	35	3	35
	92+00.00	38	1580	35	16	35	16	35	9	35	3	35
	91+75.00	39	1580	35	16	35	16	35	9	35	3	35
	91+50.00	40	1580	35	16	35	16	35	9	35	3	35
	91+25.00	41	1580	35	16	35	16	35	9	35	3	35
	91+00.00	42	1580	35	16	35	16	35	9	35	3	35
	90+75.00	43	1580	35	16	35	16	35	9	35	3	35
	90+50.00	44	1580	35	16	35	16	35	9	35	3	35
	90+25.00	45	1580	35	16	35	16	35	9	35	3	35
	90+00.00	46	1580	35	16	35	16	35	9	35	3	35
	89+75.00	47	1580	35	16	35	16	35	9	35	3	35
	89+50.00	48	1580	35	16	35	16	35	9	35	3	35
	89+25.00	49	1580	35	16	35	16	35	9	35	3	35
	89+00.00	50	1580	35	16	35	16	35	9	35	3	35
	88+75.00	51	1580	35	16	35	16	35	9	35	3	35
	88+50.00	52	1580	35	16	35	16	35	9	35	3	35
	88+25.00	53	1580	35	16	35	16	35	9	35	3	35
	88+00.00	54	1580	35	16	35	16	35	9	35	3	35
	87+75.00	55	1580	35	16	35	16	35	9	35	3	35
	87+50.00	56	1580	35	16	35	16	35	9	35	3	35
	87+25.00	57	1580	35	16	35	16	35	9	35	3	35
	87+00.00	58	1580	35	16	35	16	35	9	35	3	35
	86+75.00	59	1580	35	16	35	16	35	9	35	3	35
	86+50.00	60	1580	35	16	35	16	35	9	35	3	35
	86+25.00	61	1580	35	16	35	16	35	9	35	3	35
	86+00.00	62	1580	35	16	35	16	35	9	35	3	35
	85+75.00	63	1580	35	16	35	16	35	9	35	3	35
	85+50.00	64	1580	35	16	35	16	35	9	35	3	35
	85+25.00	65	1580	35	16	35	16	35	9	35	3	35
	85+00.00	66	1580	35	16	35	16	35	9	35	3	35
	84+75.00	67	1580	35	16	35	16	35	9	35	3	35
	84+50.00	68	1580	35	16	35	16	35	9	35	3	35
	84+25.00	69	1580	35	16	35	16	35	9	35	3	35
	84+00.00	70	1580	35	16	35	16	35	9	35	3	35
	83+75.00	71	1580	35	16	35	16	35	9	35	3	35

	83+50.00	72	1580	35	16	35	16	35	9	35	3	35
	83+25.00	73	1580	35	16	35	16	35	9	35	3	35
	83+00.00	74	1580	35	16	35	16	35	9	35	3	35
	82+75.00	75	1580	35	16	35	16	35	9	35	3	35
	82+69.62	76										
Aurora Avenue SB 115th	124+75.00	193	1712	40	18	40	18	40	9	40	4	40
	124+50.00	194	1712	40	18	40	18	40	9	40	4	40
	124+25.00	195	1712	40	18	40	18	40	9	40	4	40
	124+00.00	196	1712	40	18	40	18	40	9	40	4	40
	123+75.00	197	1712	40	18	40	18	40	9	40	4	40
	123+50.00	198	1712	40	18	40	18	40	9	40	4	40
	123+25.00	199	1712	40	18	40	18	40	9	40	4	40
	123+00.00	200	1712	40	18	40	18	40	9	40	4	40
	122+75.00	201	1712	40	18	40	18	40	9	40	4	40
	122+50.00	202	1712	40	18	40	18	40	9	40	4	40
	122+25.00	203	1712	40	18	40	18	40	9	40	4	40
	122+00.00	204	1712	40	18	40	18	40	9	40	4	40
	121+75.00	205	1712	40	18	40	18	40	9	40	4	40
	121+50.00	206	1712	40	18	40	18	40	9	40	4	40
	121+25.00	207	1712	40	18	40	18	40	9	40	4	40
	121+00.00	208	1712	40	18	40	18	40	9	40	4	40
	120+75.00	209	1712	40	18	40	18	40	9	40	4	40
	120+50.00	210	1712	40	18	40	18	40	9	40	4	40
	120+25.00	211	1712	40	18	40	18	40	9	40	4	40
	120+00.00	212	1712	40	18	40	18	40	9	40	4	40
	119+75.00	213	1712	40	18	40	18	40	9	40	4	40
	119+50.00	214	1712	40	18	40	18	40	9	40	4	40
	119+25.00	215	1712	40	18	40	18	40	9	40	4	40
	119+00.00	216	1712	40	18	40	18	40	9	40	4	40
	118+75.00	217	1712	40	18	40	18	40	9	40	4	40
	118+50.00	218	1712	40	18	40	18	40	9	40	4	40
	118+25.00	219	1712	40	18	40	18	40	9	40	4	40
	118+00.00	220	1712	40	18	40	18	40	9	40	4	40
	117+75.00	221	1712	40	18	40	18	40	9	40	4	40
	117+50.00	222	1712	40	18	40	18	40	9	40	4	40
	117+25.00	223	1712	40	18	40	18	40	9	40	4	40

	117+00.00	224	1712	40	18	40	18	40	9	40	4	40
	116+75.00	225	1712	40	18	40	18	40	9	40	4	40
	116+50.00	226	1712	40	18	40	18	40	9	40	4	40
	116+25.00	227	1712	40	18	40	18	40	9	40	4	40
	116+00.00	228	1712	40	18	40	18	40	9	40	4	40
	115+75.00	229	1712	40	18	40	18	40	9	40	4	40
	115+50.00	230	1712	40	18	40	18	40	9	40	4	40
	115+25.00	231	1712	40	18	40	18	40	9	40	4	40
	115+00.00	232	1712	40	18	40	18	40	9	40	4	40
	114+75.00	233	1712	40	18	40	18	40	9	40	4	40
	114+50.00	234	1712	40	18	40	18	40	9	40	4	40
	114+25.00	235	1712	40	18	40	18	40	9	40	4	40
	114+00.00	236	1712	40	18	40	18	40	9	40	4	40
	113+75.00	237	1712	40	18	40	18	40	9	40	4	40
	113+50.00	238	1712	40	18	40	18	40	9	40	4	40
	113+25.00	239	1712	40	18	40	18	40	9	40	4	40
	113+00.00	240	1712	40	18	40	18	40	9	40	4	40
	112+75.00	241	1712	40	18	40	18	40	9	40	4	40
	112+50.00	242	1712	40	18	40	18	40	9	40	4	40
	112+25.00	243	1712	40	18	40	18	40	9	40	4	40
	112+00.00	244	1712	40	18	40	18	40	9	40	4	40
	111+75.00	245	1712	40	18	40	18	40	9	40	4	40
	111+50.00	246	1712	40	18	40	18	40	9	40	4	40
	111+25.00	247	1712	40	18	40	18	40	9	40	4	40
	111+00.00	248	1712	40	18	40	18	40	9	40	4	40
	110+75.00	249	1712	40	18	40	18	40	9	40	4	40
	110+50.00	250	1712	40	18	40	18	40	9	40	4	40
	110+25.00	251	1712	40	18	40	18	40	9	40	4	40
	110+00.00	252	1712	40	18	40	18	40	9	40	4	40
	109+75.00	253	1712	40	18	40	18	40	9	40	4	40
	109+50.00	254	1712	40	18	40	18	40	9	40	4	40
	109+25.00	255	1712	40	18	40	18	40	9	40	4	40
	109+00.00	256	1712	40	18	40	18	40	9	40	4	40
	108+75.00	257	1712	40	18	40	18	40	9	40	4	40
	108+50.00	258	1712	40	18	40	18	40	9	40	4	40
	108+25.00	259	1712	40	18	40	18	40	9	40	4	40

	108+00.00	260	1712	40	18	40	18	40	9	40	4	40
	107+75.00	261	1712	40	18	40	18	40	9	40	4	40
	107+50.00	262	1712	40	18	40	18	40	9	40	4	40
	107+25.00	263	1712	40	18	40	18	40	9	40	4	40
	107+00.00	264	1712	40	18	40	18	40	9	40	4	40
	106+75.00	265	1712	40	18	40	18	40	9	40	4	40
	106+50.00	266	1712	40	18	40	18	40	9	40	4	40
	106+25.00	267	1712	40	18	40	18	40	9	40	4	40
	106+00.00	268	1712	40	18	40	18	40	9	40	4	40
	105+75.00	269	1712	40	18	40	18	40	9	40	4	40
	105+50.00	270	1712	40	18	40	18	40	9	40	4	40
	105+25.00	271	1712	40	18	40	18	40	9	40	4	40
	105+00.00	272	1712	40	18	40	18	40	9	40	4	40
	104+75.00	273	1712	40	18	40	18	40	9	40	4	40
	104+50.00	274	1712	40	18	40	18	40	9	40	4	40
	104+25.00	275	1712	40	18	40	18	40	9	40	4	40
	104+00.00	276	1712	40	18	40	18	40	9	40	4	40
	103+75.00	277	1712	40	18	40	18	40	9	40	4	40
	103+50.00	278	1712	40	18	40	18	40	9	40	4	40
	103+25.00	279	1712	40	18	40	18	40	9	40	4	40
	103+00.00	280	1712	40	18	40	18	40	9	40	4	40
	102+75.00	281	1712	40	18	40	18	40	9	40	4	40
	102+50.00	282	1712	40	18	40	18	40	9	40	4	40
	102+25.00	283	1712	40	18	40	18	40	9	40	4	40
	102+00.00	284	1712	40	18	40	18	40	9	40	4	40
	101+75.00	285	1712	40	18	40	18	40	9	40	4	40
	101+50.00	286	1712	40	18	40	18	40	9	40	4	40
	101+25.00	287	1712	40	18	40	18	40	9	40	4	40
	101+00.00	288	1712	40	18	40	18	40	9	40	4	40
	100+75.00	289	1712	40	18	40	18	40	9	40	4	40
	100+50.00	290	1712	40	18	40	18	40	9	40	4	40
	100+25.00	291	1712	40	18	40	18	40	9	40	4	40
	100+00.00	292	1712	40	18	40	18	40	9	40	4	40
	99+75.00	293	1712	40	18	40	18	40	9	40	4	40
	99+50.00	294	1712	40	18	40	18	40	9	40	4	40
	99+25.00	295	1712	40	18	40	18	40	9	40	4	40

	99+00.00	296	1712	40	18	40	18	40	9	40	4	40
	98+75.00	297	1712	40	18	40	18	40	9	40	4	40
	98+50.00	299										
Aurora Avenue SB to 125th	134+75.00	300	1644	40	17	40	17	40	9	40	3	40
	134+50.00	301	1644	40	17	40	17	40	9	40	3	40
	134+25.00	302	1644	40	17	40	17	40	9	40	3	40
	134+00.00	303	1644	40	17	40	17	40	9	40	3	40
	133+75.00	304	1644	40	17	40	17	40	9	40	3	40
	133+50.00	305	1644	40	17	40	17	40	9	40	3	40
	133+25.00	306	1644	40	17	40	17	40	9	40	3	40
	133+00.00	307	1644	40	17	40	17	40	9	40	3	40
	132+75.00	308	1644	40	17	40	17	40	9	40	3	40
	132+50.00	309	1644	40	17	40	17	40	9	40	3	40
	132+25.00	310	1644	40	17	40	17	40	9	40	3	40
	132+00.00	311	1644	40	17	40	17	40	9	40	3	40
	131+75.00	312	1644	40	17	40	17	40	9	40	3	40
	131+50.00	313	1644	40	17	40	17	40	9	40	3	40
	131+25.00	314	1644	40	17	40	17	40	9	40	3	40
	131+00.00	315	1644	40	17	40	17	40	9	40	3	40
	130+75.00	316	1644	40	17	40	17	40	9	40	3	40
	130+50.00	317	1644	40	17	40	17	40	9	40	3	40
	130+25.00	318	1644	40	17	40	17	40	9	40	3	40
	130+00.00	319	1644	40	17	40	17	40	9	40	3	40
	129+75.00	320	1644	40	17	40	17	40	9	40	3	40
	129+50.00	321	1644	40	17	40	17	40	9	40	3	40
	129+25.00	322	1644	40	17	40	17	40	9	40	3	40
	129+00.00	323	1644	40	17	40	17	40	9	40	3	40
	128+75.00	324	1644	40	17	40	17	40	9	40	3	40
	128+50.00	325	1644	40	17	40	17	40	9	40	3	40
	128+25.00	326	1644	40	17	40	17	40	9	40	3	40
	128+00.00	327	1644	40	17	40	17	40	9	40	3	40
	127+75.00	328	1644	40	17	40	17	40	9	40	3	40
	127+50.00	329	1644	40	17	40	17	40	9	40	3	40
	127+25.00	330	1644	40	17	40	17	40	9	40	3	40
	127+00.00	331	1644	40	17	40	17	40	9	40	3	40
	126+75.00	332	1644	40	17	40	17	40	9	40	3	40

	126+50.00	333	1644	40	17	40	17	40	9	40	3	40
	126+25.00	334	1644	40	17	40	17	40	9	40	3	40
	126+00.00	335	1644	40	17	40	17	40	9	40	3	40
	125+75.00	336	1644	40	17	40	17	40	9	40	3	40
	125+50.00	337	1644	40	17	40	17	40	9	40	3	40
	125+25.00	338	1644	40	17	40	17	40	9	40	3	40
	125+00.00	339										
Aurora Avenue SB to 128th	137+75.00	952	1654	40	17	40	17	40	9	40	3	40
	137+50.00	951	1654	40	17	40	17	40	9	40	3	40
	137+25.00	349	1654	40	17	40	17	40	9	40	3	40
	137+00.00	348	1654	40	17	40	17	40	9	40	3	40
	136+75.00	347	1654	40	17	40	17	40	9	40	3	40
	136+50.00	346	1654	40	17	40	17	40	9	40	3	40
	136+25.00	345	1654	40	17	40	17	40	9	40	3	40
	136+00.00	344	1654	40	17	40	17	40	9	40	3	40
	135+75.00	343	1654	40	17	40	17	40	9	40	3	40
	135+50.00	342	1654	40	17	40	17	40	9	40	3	40
	135+25.00	341	1654	40	17	40	17	40	9	40	3	40
	135+00.00	340										
Aurora Avenue SB to 130 th	151+25.00	350	1590	40	16	40	16	40	9	40	3	40
	151+00.00	351	1590	40	16	40	16	40	9	40	3	40
	150+75.00	352	1590	40	16	40	16	40	9	40	3	40
	150+50.00	353	1590	40	16	40	16	40	9	40	3	40
	150+25.00	354	1590	40	16	40	16	40	9	40	3	40
	150+00.00	355	1590	40	16	40	16	40	9	40	3	40
	149+75.00	356	1590	40	16	40	16	40	9	40	3	40
	149+50.00	357	1590	40	16	40	16	40	9	40	3	40
	149+25.00	358	1590	40	16	40	16	40	9	40	3	40
	149+00.00	359	1590	40	16	40	16	40	9	40	3	40
	148+75.00	360	1590	40	16	40	16	40	9	40	3	40
	148+50.00	361	1590	40	16	40	16	40	9	40	3	40
	148+25.00	362	1590	40	16	40	16	40	9	40	3	40
	148+00.00	363	1590	40	16	40	16	40	9	40	3	40
	147+75.00	364	1590	40	16	40	16	40	9	40	3	40
	147+50.00	365	1590	40	16	40	16	40	9	40	3	40
	147+25.00	366	1590	40	16	40	16	40	9	40	3	40

	147+00.00	367	1590	40	16	40	16	40	9	40	3	40
	146+75.00	368	1590	40	16	40	16	40	9	40	3	40
	146+50.00	369	1590	40	16	40	16	40	9	40	3	40
	146+25.00	370	1590	40	16	40	16	40	9	40	3	40
	146+00.00	371	1590	40	16	40	16	40	9	40	3	40
	145+75.00	372	1590	40	16	40	16	40	9	40	3	40
	145+50.00	373	1590	40	16	40	16	40	9	40	3	40
	145+25.00	374	1590	40	16	40	16	40	9	40	3	40
	145+00.00	375	1590	40	16	40	16	40	9	40	3	40
	144+75.00	376	1590	40	16	40	16	40	9	40	3	40
	144+50.00	377	1590	40	16	40	16	40	9	40	3	40
	144+25.00	378	1590	40	16	40	16	40	9	40	3	40
	144+00.00	379	1590	40	16	40	16	40	9	40	3	40
	143+75.00	380	1590	40	16	40	16	40	9	40	3	40
	143+50.00	381	1590	40	16	40	16	40	9	40	3	40
	143+25.00	382	1590	40	16	40	16	40	9	40	3	40
	143+00.00	383	1590	40	16	40	16	40	9	40	3	40
	142+75.00	384	1590	40	16	40	16	40	9	40	3	40
	142+50.00	385	1590	40	16	40	16	40	9	40	3	40
	142+25.00	386	1590	40	16	40	16	40	9	40	3	40
	142+00.00	387	1590	40	16	40	16	40	9	40	3	40
	141+75.00	388	1590	40	16	40	16	40	9	40	3	40
	141+50.00	389	1590	40	16	40	16	40	9	40	3	40
	141+25.00	390	1590	40	16	40	16	40	9	40	3	40
	141+00.00	391	1590	40	16	40	16	40	9	40	3	40
	140+75.00	392	1590	40	16	40	16	40	9	40	3	40
	140+50.00	393	1590	40	16	40	16	40	9	40	3	40
	140+25.00	394	1590	40	16	40	16	40	9	40	3	40
	140+00.00	395	1590	40	16	40	16	40	9	40	3	40
	139+75.00	396	1590	40	16	40	16	40	9	40	3	40
	139+50.00	397	1590	40	16	40	16	40	9	40	3	40
	139+25.00	398	1590	40	16	40	16	40	9	40	3	40
	139+00.00	399	1590	40	16	40	16	40	9	40	3	40
	138+75.00	400	1590	40	16	40	16	40	9	40	3	40
	138+50.00	401	1590	40	16	40	16	40	9	40	3	40
	138+25.00	402	1590	40	16	40	16	40	9	40	3	40

	138+00.00	403										
Aurora Avenue SB to 135th	157+75.00	404	1551	40	16	40	16	40	9	40	3	40
	157+50.00	405	1551	40	16	40	16	40	9	40	3	40
	157+25.00	406	1551	40	16	40	16	40	9	40	3	40
	157+00.00	407	1551	40	16	40	16	40	9	40	3	40
	156+75.00	408	1551	40	16	40	16	40	9	40	3	40
	156+50.00	409	1551	40	16	40	16	40	9	40	3	40
	156+25.00	410	1551	40	16	40	16	40	9	40	3	40
	156+00.00	411	1551	40	16	40	16	40	9	40	3	40
	155+75.00	412	1551	40	16	40	16	40	9	40	3	40
	155+50.00	413	1551	40	16	40	16	40	9	40	3	40
	155+25.00	414	1551	40	16	40	16	40	9	40	3	40
	155+00.00	415	1551	40	16	40	16	40	9	40	3	40
	154+75.00	416	1551	40	16	40	16	40	9	40	3	40
	154+50.00	417	1551	40	16	40	16	40	9	40	3	40
	154+25.00	418	1551	40	16	40	16	40	9	40	3	40
	154+00.00	419	1551	40	16	40	16	40	9	40	3	40
	153+75.00	420	1551	40	16	40	16	40	9	40	3	40
	153+50.00	421	1551	40	16	40	16	40	9	40	3	40
	153+25.00	422	1551	40	16	40	16	40	9	40	3	40
	153+00.00	423	1551	40	16	40	16	40	9	40	3	40
	152+75.00	424	1551	40	16	40	16	40	9	40	3	40
	152+50.00	425	1551	40	16	40	16	40	9	40	3	40
	152+25.00	426	1551	40	16	40	16	40	9	40	3	40
	152+00.00	427	1551	40	16	40	16	40	9	40	3	40
	151+75.00	428	1551	40	16	40	16	40	9	40	3	40
	151+50.00	429										
Aurora Avenue SB to 137th	164+50.00	430	1556	40	16	40	16	40	9	40	3	40
	164+25.00	431	1556	40	16	40	16	40	9	40	3	40
	164+00.00	432	1556	40	16	40	16	40	9	40	3	40
	163+75.00	433	1556	40	16	40	16	40	9	40	3	40
	163+50.00	434	1556	40	16	40	16	40	9	40	3	40
	163+25.00	435	1556	40	16	40	16	40	9	40	3	40
	163+00.00	436	1556	40	16	40	16	40	9	40	3	40
	162+75.00	437	1556	40	16	40	16	40	9	40	3	40
	162+50.00	438	1556	40	16	40	16	40	9	40	3	40

	162+25.00	439	1556	40	16	40	16	40	9	40	3	40
	162+00.00	440	1556	40	16	40	16	40	9	40	3	40
	161+75.00	441	1556	40	16	40	16	40	9	40	3	40
	161+50.00	444	1556	40	16	40	16	40	9	40	3	40
	161+25.00	445	1556	40	16	40	16	40	9	40	3	40
	161+00.00	446	1556	40	16	40	16	40	9	40	3	40
	160+75.00	447	1556	40	16	40	16	40	9	40	3	40
	160+50.00	448	1556	40	16	40	16	40	9	40	3	40
	160+25.00	449	1556	40	16	40	16	40	9	40	3	40
	160+00.00	450	1556	40	16	40	16	40	9	40	3	40
	159+75.00	451	1556	40	16	40	16	40	9	40	3	40
	159+50.00	452	1556	40	16	40	16	40	9	40	3	40
	159+25.00	453	1556	40	16	40	16	40	9	40	3	40
	159+00.00	454	1556	40	16	40	16	40	9	40	3	40
	158+75.00	455	1556	40	16	40	16	40	9	40	3	40
	158+50.00	456	1556	40	16	40	16	40	9	40	3	40
	158+25.00	457	1556	40	16	40	16	40	9	40	3	40
	158+00.00	458										
Aurora Avenue SB to 140th	177+75.00	459	1546	40	16	40	16	40	9	40	3	40
	177+50.00	460	1546	40	16	40	16	40	9	40	3	40
	177+25.00	461	1546	40	16	40	16	40	9	40	3	40
	177+00.00	462	1546	40	16	40	16	40	9	40	3	40
	176+75.00	463	1546	40	16	40	16	40	9	40	3	40
	176+50.00	464	1546	40	16	40	16	40	9	40	3	40
	176+25.00	465	1546	40	16	40	16	40	9	40	3	40
	176+00.00	466	1546	40	16	40	16	40	9	40	3	40
	175+75.00	467	1546	40	16	40	16	40	9	40	3	40
	175+50.00	468	1546	40	16	40	16	40	9	40	3	40
	175+25.00	469	1546	40	16	40	16	40	9	40	3	40
	175+00.00	470	1546	40	16	40	16	40	9	40	3	40
	174+75.00	471	1546	40	16	40	16	40	9	40	3	40
	174+50.00	472	1546	40	16	40	16	40	9	40	3	40
	174+25.00	473	1546	40	16	40	16	40	9	40	3	40
	174+00.00	474	1546	40	16	40	16	40	9	40	3	40
	173+75.00	475	1546	40	16	40	16	40	9	40	3	40
	173+50.00	476	1546	40	16	40	16	40	9	40	3	40

	173+25.00	477	1546	40	16	40	16	40	9	40	3	40
	173+00.00	478	1546	40	16	40	16	40	9	40	3	40
	172+75.00	479	1546	40	16	40	16	40	9	40	3	40
	172+50.00	480	1546	40	16	40	16	40	9	40	3	40
	172+25.00	481	1546	40	16	40	16	40	9	40	3	40
	172+00.00	482	1546	40	16	40	16	40	9	40	3	40
	171+75.00	483	1546	40	16	40	16	40	9	40	3	40
	171+50.00	484	1546	40	16	40	16	40	9	40	3	40
	171+25.00	485	1546	40	16	40	16	40	9	40	3	40
	171+00.00	486	1546	40	16	40	16	40	9	40	3	40
	170+75.00	487	1546	40	16	40	16	40	9	40	3	40
	170+50.00	488	1546	40	16	40	16	40	9	40	3	40
	170+25.00	489	1546	40	16	40	16	40	9	40	3	40
	170+00.00	490	1546	40	16	40	16	40	9	40	3	40
	169+75.00	491	1546	40	16	40	16	40	9	40	3	40
	169+50.00	492	1546	40	16	40	16	40	9	40	3	40
	169+25.00	493	1546	40	16	40	16	40	9	40	3	40
	169+00.00	494	1546	40	16	40	16	40	9	40	3	40
	168+75.00	495	1546	40	16	40	16	40	9	40	3	40
	168+50.00	496	1546	40	16	40	16	40	9	40	3	40
	168+25.00	497	1546	40	16	40	16	40	9	40	3	40
	168+00.00	498	1546	40	16	40	16	40	9	40	3	40
	167+75.00	499	1546	40	16	40	16	40	9	40	3	40
	167+50.00	500	1546	40	16	40	16	40	9	40	3	40
	167+25.00	501	1546	40	16	40	16	40	9	40	3	40
	167+00.00	502	1546	40	16	40	16	40	9	40	3	40
	166+75.00	503	1546	40	16	40	16	40	9	40	3	40
	166+50.00	504	1546	40	16	40	16	40	9	40	3	40
	166+25.00	505	1546	40	16	40	16	40	9	40	3	40
	166+00.00	506	1546	40	16	40	16	40	9	40	3	40
	165+75.00	511	1546	40	16	40	16	40	9	40	3	40
	165+50.00	512	1546	40	16	40	16	40	9	40	3	40
	165+25.00	513	1546	40	16	40	16	40	9	40	3	40
	165+00.00	514	1546	40	16	40	16	40	9	40	3	40
	164+75.00	515										
Aurora Avenue SB to north of 145th	179+79.04	516	1478	40	15	40	15	40	9	40	3	40

	179+75.00	517	1478	40	15	40	15	40	9	40	3	40
	179+50.00	518	1478	40	15	40	15	40	9	40	3	40
	179+25.00	519	1478	40	15	40	15	40	9	40	3	40
	179+00.00	520	1478	40	15	40	15	40	9	40	3	40
	178+75.00	521	1478	40	15	40	15	40	9	40	3	40
	178+50.00	522	1478	40	15	40	15	40	9	40	3	40
	178+25.00	523	1478	40	15	40	15	40	9	40	3	40
	178+00.00	524										
Aurora Avenue NB to 115th	82+46.00	525	2180	35	22	35	22	35	11	35	4	35
	82+50.00	526	2180	35	22	35	22	35	11	35	4	35
	82+75.00	527	2180	35	22	35	22	35	11	35	4	35
	83+00.00	528	2180	35	22	35	22	35	11	35	4	35
	83+25.00	529	2180	35	22	35	22	35	11	35	4	35
	83+50.00	530	2180	35	22	35	22	35	11	35	4	35
	83+75.00	531	2180	35	22	35	22	35	11	35	4	35
	84+00.00	532	2180	35	22	35	22	35	11	35	4	35
	84+25.00	533	2180	35	22	35	22	35	11	35	4	35
	84+50.00	534	2180	35	22	35	22	35	11	35	4	35
	84+75.00	535	2180	35	22	35	22	35	11	35	4	35
	85+00.00	536	2180	35	22	35	22	35	11	35	4	35
	85+25.00	537	2180	35	22	35	22	35	11	35	4	35
	85+50.00	538	2180	35	22	35	22	35	11	35	4	35
	85+75.00	539	2180	35	22	35	22	35	11	35	4	35
	86+00.00	540	2180	35	22	35	22	35	11	35	4	35
	86+25.00	541	2180	35	22	35	22	35	11	35	4	35
	86+50.00	542	2180	35	22	35	22	35	11	35	4	35
	86+75.00	543	2180	35	22	35	22	35	11	35	4	35
	87+00.00	544	2180	35	22	35	22	35	11	35	4	35
	87+25.00	545	2180	35	22	35	22	35	11	35	4	35
	87+50.00	546	2180	35	22	35	22	35	11	35	4	35
	87+75.00	547	2180	35	22	35	22	35	11	35	4	35
	88+00.00	548	2180	35	22	35	22	35	11	35	4	35
	88+25.00	549	2180	35	22	35	22	35	11	35	4	35
	88+50.00	550	2180	35	22	35	22	35	11	35	4	35
	88+75.00	551	2180	35	22	35	22	35	11	35	4	35
	89+00.00	552	2180	35	22	35	22	35	11	35	4	35

	89+25.00	553	2180	35	22	35	22	35	11	35	4	35
	89+50.00	554	2180	35	22	35	22	35	11	35	4	35
	89+75.00	555	2180	35	22	35	22	35	11	35	4	35
	90+00.00	556	2180	35	22	35	22	35	11	35	4	35
	90+25.00	557	2180	35	22	35	22	35	11	35	4	35
	90+50.00	558	2180	35	22	35	22	35	11	35	4	35
	90+75.00	559	2180	35	22	35	22	35	11	35	4	35
	91+00.00	560	2180	35	22	35	22	35	11	35	4	35
	91+25.00	561	2180	35	22	35	22	35	11	35	4	35
	91+50.00	562	2180	35	22	35	22	35	11	35	4	35
	91+75.00	563	2180	35	22	35	22	35	11	35	4	35
	92+00.00	564	2180	35	22	35	22	35	11	35	4	35
	92+25.00	565	2180	35	22	35	22	35	11	35	4	35
	92+50.00	566	2180	35	22	35	22	35	11	35	4	35
	92+75.00	567	2180	35	22	35	22	35	11	35	4	35
	93+00.00	568	2180	35	22	35	22	35	11	35	4	35
	93+25.00	569	2180	35	22	35	22	35	11	35	4	35
	93+50.00	570	2180	35	22	35	22	35	11	35	4	35
	93+75.00	571	2180	35	22	35	22	35	11	35	4	35
	94+00.00	572	2180	35	22	35	22	35	11	35	4	35
	94+25.00	573	2180	35	22	35	22	35	11	35	4	35
	94+50.00	574	2180	35	22	35	22	35	11	35	4	35
	94+75.00	575	2180	35	22	35	22	35	11	35	4	35
	95+00.00	576	2180	35	22	35	22	35	11	35	4	35
	95+25.00	577	2180	35	22	35	22	35	11	35	4	35
	95+50.00	578	2180	35	22	35	22	35	11	35	4	35
	95+75.00	923	2180	35	22	35	22	35	11	35	4	35
	96+00.00	924	2180	35	22	35	22	35	11	35	4	35
	96+25.00	925	2180	35	22	35	22	35	11	35	4	35
	96+50.00	926	2180	35	22	35	22	35	11	35	4	35
	96+75.00	927	2180	35	22	35	22	35	11	35	4	35
	97+00.00	928	2180	35	22	35	22	35	11	35	4	35
	97+25.00	929	2180	35	22	35	22	35	11	35	4	35
	97+50.00	930	2180	35	22	35	22	35	11	35	4	35
	97+75.00	931	2180	35	22	35	22	35	11	35	4	35
	98+00.00	932	2180	35	22	35	22	35	11	35	4	35

	98+25.00	933										
Aurora Avenue NB to 125th	98+50.00	579	2302	40	24	40	24	40	11	40	5	40
	98+75.00	580	2302	40	24	40	24	40	11	40	5	40
	99+00.00	581	2302	40	24	40	24	40	11	40	5	40
	99+25.00	582	2302	40	24	40	24	40	11	40	5	40
	99+50.00	583	2302	40	24	40	24	40	11	40	5	40
	99+75.00	584	2302	40	24	40	24	40	11	40	5	40
	100+00.00	585	2302	40	24	40	24	40	11	40	5	40
	100+25.00	586	2302	40	24	40	24	40	11	40	5	40
	100+50.00	587	2302	40	24	40	24	40	11	40	5	40
	100+75.00	588	2302	40	24	40	24	40	11	40	5	40
	101+00.00	589	2302	40	24	40	24	40	11	40	5	40
	101+25.00	590	2302	40	24	40	24	40	11	40	5	40
	101+50.00	591	2302	40	24	40	24	40	11	40	5	40
	101+75.00	592	2302	40	24	40	24	40	11	40	5	40
	102+00.00	593	2302	40	24	40	24	40	11	40	5	40
	102+25.00	594	2302	40	24	40	24	40	11	40	5	40
	102+50.00	595	2302	40	24	40	24	40	11	40	5	40
	102+75.00	596	2302	40	24	40	24	40	11	40	5	40
	103+00.00	597	2302	40	24	40	24	40	11	40	5	40
	103+25.00	598	2302	40	24	40	24	40	11	40	5	40
	103+50.00	599	2302	40	24	40	24	40	11	40	5	40
	103+75.00	600	2302	40	24	40	24	40	11	40	5	40
	104+00.00	601	2302	40	24	40	24	40	11	40	5	40
	104+25.00	602	2302	40	24	40	24	40	11	40	5	40
	104+50.00	603	2302	40	24	40	24	40	11	40	5	40
	104+75.00	604	2302	40	24	40	24	40	11	40	5	40
	105+00.00	605	2302	40	24	40	24	40	11	40	5	40
	105+25.00	606	2302	40	24	40	24	40	11	40	5	40
	105+50.00	607	2302	40	24	40	24	40	11	40	5	40
	105+75.00	608	2302	40	24	40	24	40	11	40	5	40
	106+00.00	609	2302	40	24	40	24	40	11	40	5	40
	106+25.00	610	2302	40	24	40	24	40	11	40	5	40
	106+50.00	611	2302	40	24	40	24	40	11	40	5	40
	106+75.00	612	2302	40	24	40	24	40	11	40	5	40
	107+00.00	613	2302	40	24	40	24	40	11	40	5	40

	107+25.00	614	2302	40	24	40	24	40	11	40	5	40
	107+50.00	615	2302	40	24	40	24	40	11	40	5	40
	107+75.00	616	2302	40	24	40	24	40	11	40	5	40
	108+00.00	617	2302	40	24	40	24	40	11	40	5	40
	108+25.00	618	2302	40	24	40	24	40	11	40	5	40
	108+50.00	619	2302	40	24	40	24	40	11	40	5	40
	108+75.00	620	2302	40	24	40	24	40	11	40	5	40
	109+00.00	621	2302	40	24	40	24	40	11	40	5	40
	109+25.00	622	2302	40	24	40	24	40	11	40	5	40
	109+50.00	623	2302	40	24	40	24	40	11	40	5	40
	109+75.00	624	2302	40	24	40	24	40	11	40	5	40
	110+00.00	625	2302	40	24	40	24	40	11	40	5	40
	110+25.00	626	2302	40	24	40	24	40	11	40	5	40
	110+50.00	627	2302	40	24	40	24	40	11	40	5	40
	110+75.00	628	2302	40	24	40	24	40	11	40	5	40
	111+00.00	629	2302	40	24	40	24	40	11	40	5	40
	111+25.00	630	2302	40	24	40	24	40	11	40	5	40
	111+50.00	631	2302	40	24	40	24	40	11	40	5	40
	111+75.00	632	2302	40	24	40	24	40	11	40	5	40
	112+00.00	633	2302	40	24	40	24	40	11	40	5	40
	112+25.00	634	2302	40	24	40	24	40	11	40	5	40
	112+50.00	635	2302	40	24	40	24	40	11	40	5	40
	112+75.00	636	2302	40	24	40	24	40	11	40	5	40
	113+00.00	637	2302	40	24	40	24	40	11	40	5	40
	113+25.00	638	2302	40	24	40	24	40	11	40	5	40
	113+50.00	639	2302	40	24	40	24	40	11	40	5	40
	113+75.00	640	2302	40	24	40	24	40	11	40	5	40
	114+00.00	641	2302	40	24	40	24	40	11	40	5	40
	114+25.00	642	2302	40	24	40	24	40	11	40	5	40
	114+50.00	643	2302	40	24	40	24	40	11	40	5	40
	114+75.00	644	2302	40	24	40	24	40	11	40	5	40
	115+00.00	645	2302	40	24	40	24	40	11	40	5	40
	115+25.00	646	2302	40	24	40	24	40	11	40	5	40
	115+50.00	647	2302	40	24	40	24	40	11	40	5	40
	115+75.00	648	2302	40	24	40	24	40	11	40	5	40
	116+00.00	649	2302	40	24	40	24	40	11	40	5	40

	116+25.00	650	2302	40	24	40	24	40	11	40	5	40
	116+50.00	651	2302	40	24	40	24	40	11	40	5	40
	116+75.00	652	2302	40	24	40	24	40	11	40	5	40
	117+00.00	653	2302	40	24	40	24	40	11	40	5	40
	117+25.00	654	2302	40	24	40	24	40	11	40	5	40
	117+50.00	655	2302	40	24	40	24	40	11	40	5	40
	117+75.00	656	2302	40	24	40	24	40	11	40	5	40
	118+00.00	657	2302	40	24	40	24	40	11	40	5	40
	118+25.00	658	2302	40	24	40	24	40	11	40	5	40
	118+50.00	659	2302	40	24	40	24	40	11	40	5	40
	118+75.00	660	2302	40	24	40	24	40	11	40	5	40
	119+00.00	661	2302	40	24	40	24	40	11	40	5	40
	119+25.00	662	2302	40	24	40	24	40	11	40	5	40
	119+50.00	663	2302	40	24	40	24	40	11	40	5	40
	119+75.00	664	2302	40	24	40	24	40	11	40	5	40
	120+00.00	665	2302	40	24	40	24	40	11	40	5	40
	120+25.00	666	2302	40	24	40	24	40	11	40	5	40
	120+50.00	667	2302	40	24	40	24	40	11	40	5	40
	120+75.00	668	2302	40	24	40	24	40	11	40	5	40
	121+00.00	669	2302	40	24	40	24	40	11	40	5	40
	121+25.00	670	2302	40	24	40	24	40	11	40	5	40
	121+50.00	671	2302	40	24	40	24	40	11	40	5	40
	121+75.00	672	2302	40	24	40	24	40	11	40	5	40
	122+00.00	673	2302	40	24	40	24	40	11	40	5	40
	122+25.00	674	2302	40	24	40	24	40	11	40	5	40
	122+50.00	675	2302	40	24	40	24	40	11	40	5	40
	122+75.00	676	2302	40	24	40	24	40	11	40	5	40
	123+00.00	677	2302	40	24	40	24	40	11	40	5	40
	123+25.00	678	2302	40	24	40	24	40	11	40	5	40
	123+50.00	679	2302	40	24	40	24	40	11	40	5	40
	123+75.00	680	2302	40	24	40	24	40	11	40	5	40
	124+00.00	681	2302	40	24	40	24	40	11	40	5	40
	124+25.00	682	2302	40	24	40	24	40	11	40	5	40
	124+50.00	683	2302	40	24	40	24	40	11	40	5	40
	124+75.00	684										
Aurora Avenue NB to 128th	125+00.00	685	2390	40	25	40	25	40	11	40	5	40

	125+25.00	686	2390	40	25	40	25	40	11	40	5	40
	125+50.00	687	2390	40	25	40	25	40	11	40	5	40
	125+75.00	688	2390	40	25	40	25	40	11	40	5	40
	126+00.00	689	2390	40	25	40	25	40	11	40	5	40
	126+25.00	690	2390	40	25	40	25	40	11	40	5	40
	126+50.00	691	2390	40	25	40	25	40	11	40	5	40
	126+75.00	692	2390	40	25	40	25	40	11	40	5	40
	127+00.00	693	2390	40	25	40	25	40	11	40	5	40
	127+25.00	694	2390	40	25	40	25	40	11	40	5	40
	127+50.00	695	2390	40	25	40	25	40	11	40	5	40
	127+75.00	696	2390	40	25	40	25	40	11	40	5	40
	128+00.00	697	2390	40	25	40	25	40	11	40	5	40
	128+25.00	698	2390	40	25	40	25	40	11	40	5	40
	128+50.00	699	2390	40	25	40	25	40	11	40	5	40
	128+75.00	700	2390	40	25	40	25	40	11	40	5	40
	129+00.00	701	2390	40	25	40	25	40	11	40	5	40
	129+25.00	702	2390	40	25	40	25	40	11	40	1	40
	129+50.00	703	2390	40	25	40	25	40	11	40	5	40
	129+75.00	704	2390	40	25	40	25	40	11	40	5	40
	130+00.00	705	2390	40	25	40	25	40	11	40	5	40
	130+25.00	706	2390	40	25	40	25	40	11	40	5	40
	130+50.00	707	2390	40	25	40	25	40	11	40	5	40
	130+75.00	708	2390	40	25	40	25	40	11	40	5	40
	131+00.00	709	2390	40	25	40	25	40	11	40	5	40
	131+25.00	710	2390	40	25	40	25	40	11	40	5	40
	131+50.00	711	2390	40	25	40	25	40	11	40	5	40
	131+75.00	712	2390	40	25	40	25	40	11	40	5	40
	132+00.00	713	2390	40	25	40	25	40	11	40	5	40
	132+25.00	714	2390	40	25	40	25	40	11	40	5	40
	132+50.00	715	2390	40	25	40	25	40	11	40	5	40
	132+75.00	716	2390	40	25	40	25	40	11	40	5	40
	133+00.00	717	2390	40	25	40	25	40	11	40	5	40
	133+25.00	718	2390	40	25	40	25	40	11	40	5	40
	133+50.00	719	2390	40	25	40	25	40	11	40	5	40
	133+75.00	720	2390	40	25	40	25	40	11	40	5	40
	134+00.00	721	2390	40	25	40	25	40	11	40	5	40

	134+25.00	722	2390	40	25	40	25	40	11	40	5	40
	134+50.00	723	2390	40	25	40	25	40	11	40	5	40
	134+75.00	724										
Aurora Avenue NB to 130th	135+00.00	725	2273	40	23	40	23	40	11	40	5	40
	135+25.00	726	2273	40	23	40	23	40	11	40	5	40
	135+50.00	727	2273	40	23	40	23	40	11	40	5	40
	135+75.00	728	2273	40	23	40	23	40	11	40	5	40
	136+00.00	729	2273	40	23	40	23	40	11	40	5	40
	136+25.00	730	2273	40	23	40	23	40	11	40	5	40
	136+50.00	731	2273	40	23	40	23	40	11	40	5	40
	136+75.00	732	2273	40	23	40	23	40	11	40	5	40
	137+00.00	733	2273	40	23	40	23	40	11	40	5	40
	137+25.00	734	2273	40	23	40	23	40	11	40	5	40
	137+50.00	735	2273	40	23	40	23	40	11	40	5	40
	137+75.00	736										
Aurora Avenue NB to 135th	138+00.00	737	2346	40	24	40	24	40	11	40	5	40
	138+25.00	738	2346	40	24	40	24	40	11	40	5	40
	138+50.00	739	2346	40	24	40	24	40	11	40	5	40
	138+75.00	740	2346	40	24	40	24	40	11	40	5	40
	139+00.00	741	2346	40	24	40	24	40	11	40	5	40
	139+25.00	742	2346	40	24	40	24	40	11	40	5	40
	139+50.00	743	2346	40	24	40	24	40	11	40	5	40
	139+75.00	747	2346	40	24	40	24	40	11	40	5	40
	140+00.00	748	2346	40	24	40	24	40	11	40	5	40
	140+25.00	749	2346	40	24	40	24	40	11	40	5	40
	140+50.00	750	2346	40	24	40	24	40	11	40	5	40
	140+75.00	751	2346	40	24	40	24	40	11	40	5	40
	141+00.00	752	2346	40	24	40	24	40	11	40	5	40
	141+25.00	753	2346	40	24	40	24	40	11	40	5	40
	141+50.00	754	2346	40	24	40	24	40	11	40	5	40
	141+75.00	755	2346	40	24	40	24	40	11	40	5	40
	142+00.00	756	2346	40	24	40	24	40	11	40	5	40
	142+25.00	757	2346	40	24	40	24	40	11	40	5	40
	142+50.00	758	2346	40	24	40	24	40	11	40	5	40
	142+75.00	759	2346	40	24	40	24	40	11	40	5	40
	143+00.00	760	2346	40	24	40	24	40	11	40	5	40

	143+25.00	761	2346	40	24	40	24	40	11	40	5	40
	143+50.00	762	2346	40	24	40	24	40	11	40	5	40
	143+75.00	763	2346	40	24	40	24	40	11	40	5	40
	144+00.00	764	2346	40	24	40	24	40	11	40	5	40
	144+25.00	765	2346	40	24	40	24	40	11	40	5	40
	144+50.00	766	2346	40	24	40	24	40	11	40	5	40
	144+75.00	767	2346	40	24	40	24	40	11	40	5	40
	145+00.00	768	2346	40	24	40	24	40	11	40	5	40
	145+25.00	769	2346	40	24	40	24	40	11	40	5	40
	145+50.00	770	2346	40	24	40	24	40	11	40	5	40
	145+75.00	771	2346	40	24	40	24	40	11	40	5	40
	146+00.00	772	2346	40	24	40	24	40	11	40	5	40
	146+25.00	773	2346	40	24	40	24	40	11	40	5	40
	146+50.00	774	2346	40	24	40	24	40	11	40	5	40
	146+75.00	775	2346	40	24	40	24	40	11	40	5	40
	147+00.00	776	2346	40	24	40	24	40	11	40	5	40
	147+25.00	777	2346	40	24	40	24	40	11	40	5	40
	147+50.00	778	2346	40	24	40	24	40	11	40	5	40
	147+75.00	779	2346	40	24	40	24	40	11	40	5	40
	148+00.00	780	2346	40	24	40	24	40	11	40	5	40
	148+25.00	781	2346	40	24	40	24	40	11	40	5	40
	148+50.00	782	2346	40	24	40	24	40	11	40	5	40
	148+75.00	783	2346	40	24	40	24	40	11	40	5	40
	149+00.00	784	2346	40	24	40	24	40	11	40	5	40
	149+25.00	785	2346	40	24	40	24	40	11	40	5	40
	149+50.00	786	2346	40	24	40	24	40	11	40	5	40
	149+75.00	787	2346	40	24	40	24	40	11	40	5	40
	150+00.00	788	2346	40	24	40	24	40	11	40	5	40
	150+25.00	789	2346	40	24	40	24	40	11	40	5	40
	150+50.00	790	2346	40	24	40	24	40	11	40	5	40
	150+75.00	791	2346	40	24	40	24	40	11	40	5	40
	151+00.00	792	2346	40	24	40	24	40	11	40	5	40
	151+25.00	793										
Aurora Avenue NB to 137th	151+50.00	794	2517	40	26	40	26	40	11	40	5	40
	151+75.00	795	2517	40	26	40	26	40	11	40	5	40
	152+00.00	796	2517	40	26	40	26	40	11	40	5	40

	152+25.00	797	2517	40	26	40	26	40	11	40	5	40
	152+50.00	798	2517	40	26	40	26	40	11	40	5	40
	152+75.00	799	2517	40	26	40	26	40	11	40	5	40
	153+00.00	800	2517	40	26	40	26	40	11	40	5	40
	153+25.00	801	2517	40	26	40	26	40	11	40	5	40
	153+50.00	802	2517	40	26	40	26	40	11	40	5	40
	153+75.00	803	2517	40	26	40	26	40	11	40	5	40
	154+00.00	804	2517	40	26	40	26	40	11	40	5	40
	154+25.00	805	2517	40	26	40	26	40	11	40	5	40
	154+50.00	806	2517	40	26	40	26	40	11	40	5	40
	154+75.00	807	2517	40	26	40	26	40	11	40	5	40
	155+00.00	808	2517	40	26	40	26	40	11	40	5	40
	155+25.00	809	2517	40	26	40	26	40	11	40	5	40
	155+50.00	810	2517	40	26	40	26	40	11	40	5	40
	155+75.00	811	2517	40	26	40	26	40	11	40	5	40
	156+00.00	812	2517	40	26	40	26	40	11	40	5	40
	156+25.00	813	2517	40	26	40	26	40	11	40	5	40
	156+50.00	814	2517	40	26	40	26	40	11	40	5	40
	156+75.00	815	2517	40	26	40	26	40	11	40	5	40
	157+00.00	816	2517	40	26	40	26	40	11	40	5	40
	157+25.00	817	2517	40	26	40	26	40	11	40	5	40
	157+50.00	818	2517	40	26	40	26	40	11	40	5	40
	157+75.00	819										
Auora Avenue NB to 140th	158+00.00	820	2483	40	26	40	26	40	11	40	5	40
	158+25.00	821	2483	40	26	40	26	40	11	40	5	40
	158+50.00	822	2483	40	26	40	26	40	11	40	5	40
	158+75.00	823	2483	40	26	40	26	40	11	40	5	40
	159+00.00	824	2483	40	26	40	26	40	11	40	5	40
	159+25.00	825	2483	40	26	40	26	40	11	40	5	40
	159+50.00	826	2483	40	26	40	26	40	11	40	5	40
	159+75.00	827	2483	40	26	40	26	40	11	40	5	40
	160+00.00	828	2483	40	26	40	26	40	11	40	5	40
	160+25.00	829	2483	40	26	40	26	40	11	40	5	40
	160+50.00	830	2483	40	26	40	26	40	11	40	5	40
	160+75.00	831	2483	40	26	40	26	40	11	40	5	40
	161+00.00	832	2483	40	26	40	26	40	11	40	5	40

	161+25.00	833	2483	40	26	40	26	40	11	40	5	40
	161+50.00	834	2483	40	26	40	26	40	11	40	5	40
	161+75.00	835	2483	40	26	40	26	40	11	40	5	40
	162+00.00	836	2483	40	26	40	26	40	11	40	5	40
	162+25.00	837	2483	40	26	40	26	40	11	40	5	40
	162+50.00	838	2483	40	26	40	26	40	11	40	5	40
	162+75.00	839	2483	40	26	40	26	40	11	40	5	40
	163+00.00	840	2483	40	26	40	26	40	11	40	5	40
	163+25.00	841	2483	40	26	40	26	40	11	40	5	40
	163+50.00	842	2483	40	26	40	26	40	11	40	5	40
	163+75.00	843	2483	40	26	40	26	40	11	40	5	40
	164+00.00	844	2483	40	26	40	26	40	11	40	5	40
	164+25.00	845	2483	40	26	40	26	40	11	40	5	40
	164+50.00	846										
Aurora Avenue NB to 145th	164+75.00	847	2429	40	25	40	25	40	11	40	5	40
	165+00.00	848	2429	40	25	40	25	40	11	40	5	40
	165+25.00	849	2429	40	25	40	25	40	11	40	5	40
	165+50.00	850	2429	40	25	40	25	40	11	40	5	40
	165+75.00	851	2429	40	25	40	25	40	11	40	5	40
	166+00.00	852	2429	40	25	40	25	40	11	40	5	40
	166+25.00	853	2429	40	25	40	25	40	11	40	5	40
	166+50.00	854	2429	40	25	40	25	40	11	40	5	40
	166+75.00	855	2429	40	25	40	25	40	11	40	5	40
	167+00.00	856	2429	40	25	40	25	40	11	40	5	40
	167+25.00	857	2429	40	25	40	25	40	11	40	5	40
	167+50.00	858	2429	40	25	40	25	40	11	40	5	40
	167+75.00	859	2429	40	25	40	25	40	11	40	5	40
	168+00.00	860	2429	40	25	40	25	40	11	40	5	40
	168+25.00	861	2429	40	25	40	25	40	11	40	5	40
	168+50.00	862	2429	40	25	40	25	40	11	40	5	40
	168+75.00	863	2429	40	25	40	25	40	11	40	5	40
	169+00.00	864	2429	40	25	40	25	40	11	40	5	40
	169+25.00	865	2429	40	25	40	25	40	11	40	5	40
	169+50.00	866	2429	40	25	40	25	40	11	40	5	40
	169+75.00	867	2429	40	25	40	25	40	11	40	5	40
	170+00.00	868	2429	40	25	40	25	40	11	40	5	40

	170+25.00	869	2429	40	25	40	25	40	11	40	5	40
	170+50.00	870	2429	40	25	40	25	40	11	40	5	40
	170+75.00	871	2429	40	25	40	25	40	11	40	5	40
	171+00.00	872	2429	40	25	40	25	40	11	40	5	40
	171+25.00	873	2429	40	25	40	25	40	11	40	5	40
	171+50.00	874	2429	40	25	40	25	40	11	40	5	40
	171+75.00	875	2429	40	25	40	25	40	11	40	5	40
	172+00.00	876	2429	40	25	40	25	40	11	40	5	40
	172+25.00	877	2429	40	25	40	25	40	11	40	5	40
	172+50.00	878	2429	40	25	40	25	40	11	40	5	40
	172+75.00	879	2429	40	25	40	25	40	11	40	5	40
	173+00.00	880	2429	40	25	40	25	40	11	40	5	40
	173+25.00	881	2429	40	25	40	25	40	11	40	5	40
	173+50.00	882	2429	40	25	40	25	40	11	40	5	40
	173+75.00	883	2429	40	25	40	25	40	11	40	5	40
	174+00.00	884	2429	40	25	40	25	40	11	40	5	40
	174+25.00	885	2429	40	25	40	25	40	11	40	5	40
	174+50.00	886	2429	40	25	40	25	40	11	40	5	40
	174+75.00	887	2429	40	25	40	25	40	11	40	5	40
	175+00.00	888	2429	40	25	40	25	40	11	40	5	40
	175+25.00	889	2429	40	25	40	25	40	11	40	5	40
	175+50.00	890	2429	40	25	40	25	40	11	40	5	40
	175+75.00	897	2429	40	25	40	25	40	11	40	5	40
	176+00.00	898	2429	40	25	40	25	40	11	40	5	40
	176+25.00	899	2429	40	25	40	25	40	11	40	5	40
	176+50.00	900	2429	40	25	40	25	40	11	40	5	40
	176+75.00	901	2429	40	25	40	25	40	11	40	5	40
	177+00.00	902	2429	40	25	40	25	40	11	40	5	40
	177+25.00	911	2429	40	25	40	25	40	11	40	5	40
	177+50.00	912	2429	40	25	40	25	40	11	40	5	40
	177+75.00	913										
Aurora Avenue NB north of 145th	178+00.00	914	2361	40	24	40	24	40	11	40	5	40
	178+25.00	915	2361	40	24	40	24	40	11	40	5	40
	178+50.00	916	2361	40	24	40	24	40	11	40	5	40
	178+75.00	917	2361	40	24	40	24	40	11	40	5	40
	179+00.00	918	2361	40	24	40	24	40	11	40	5	40

	179+25.00	919	2361	40	4	40	24	40	11	40	5	40
	179+50.00	920	2361	40	24	40	24	40	11	40	5	40
	179+75.00	921	2361	40	24	40	24	40	11	40	5	40
	179+78.35	922										
N. 145th Street East of Aurora WB	point935	935	1243	30	19	30	6	30	4	30	3	30
	point936	936										
N. 145 th Street East of Aurora EB	point937	937	1207	30	19	30	6	30	1	30	2	30
	point938	938										
N. 145th Street West of Aurora EB	point939	939	899	30	14	30	5	30	1	30	2	30
	point940	940										
N. 145th Street West of Aurora WB	point941	941	813	30	13	30	4	30	4	30	2	30
	point942	942										
N. 125th Street East of Aurora WB	point943	943	351	25	5	25	2	25	1	25	1	25
	point944	944										
N. 125 th Street West of Aurora WB	point945	945	542	25	8	25	3	25	1	25	1	25
	point946	946										
N. 125th Street West of Aurora EB	point947	947	547	25	8	25	3	25	1	25	1	25
	point948	948										
N. 125th Street East of Aurora EB	point949	949	493	25	8	25	3	25	1	25	1	25
	point950	950										
N 130th Street East of Aurora WB	point955	955	1042	25	16	25	5	25	4	25	2	25
	point956	956										
N. 130th Street West of Auora WB	point957	957	857	25	13	25	4	25	4	25	1	25
	point958	958										
N. 130th Street West of Aurora EB	point959	959	720	25	11	25	4	25	4	25	2	25
	point960	960										
N. 130th Street East of Aurora EB	point961	961	837	25	13	25	4	25	4	25	2	25
	point962	962										

CH2M HILL
Natalie LIljenwall

16 May 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: For City of Seattle
RUN: Aurora Avenue North

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R1	1	1	1,268,244.0	262,561.7	354.65	4.92	0.00	66	10.0	8.0	Y
R2	2	1	1,268,208.0	262,839.0	355.96	4.92	0.00	66	10.0	8.0	Y
R3	3	1	1,268,478.0	262,775.4	381.33	4.92	0.00	66	10.0	8.0	Y
R4	4	1	1,268,522.2	262,826.1	352.55	4.92	0.00	66	10.0	8.0	Y
R5	6	1	1,268,455.9	264,525.6	398.29	4.92	0.00	66	10.0	8.0	Y
R6	7	1	1,268,490.0	264,534.2	382.00	4.92	0.00	66	10.0	8.0	Y
R7	8	1	1,268,453.9	264,732.4	395.00	4.92	0.00	66	10.0	8.0	Y
R8	9	1	1,268,500.8	264,704.3	394.00	4.92	0.00	66	10.0	8.0	Y
R9	10	1	1,268,134.5	265,950.6	418.00	4.92	0.00	66	10.0	8.0	Y
R10	11	1	1,268,200.5	265,950.6	417.00	4.92	0.00	66	10.0	8.0	Y
R11	12	1	1,268,192.8	266,074.7	417.00	4.92	0.00	66	10.0	8.0	Y
R12	13	1	1,268,221.8	266,192.4	422.46	4.92	0.00	66	10.0	8.0	Y
R13	14	1	1,268,169.4	266,248.6	422.52	4.92	0.00	66	10.0	8.0	Y
R14	15	1	1,268,521.9	266,458.8	417.00	4.92	0.00	66	10.0	8.0	Y
R15	16	1	1,268,463.8	266,531.2	419.68	4.92	0.00	66	10.0	8.0	Y
R16	17	1	1,268,539.6	267,640.2	435.66	4.92	0.00	66	10.0	8.0	Y
R17	18	1	1,268,700.9	267,713.6	420.00	4.92	0.00	66	10.0	8.0	Y
R18	20	1	1,268,285.1	267,948.8	441.00	4.92	0.00	66	10.0	8.0	Y
R19	22	1	1,268,551.4	268,933.3	446.00	4.92	0.00	66	10.0	8.0	Y
R20	24	1	1,268,283.5	269,205.7	456.30	4.92	0.00	66	10.0	8.0	Y
R21	25	1	1,268,320.0	269,626.3	471.24	4.92	0.00	66	10.0	8.0	Y
R22	26	1	1,268,231.2	269,718.0	473.00	4.92	0.00	66	10.0	8.0	Y

R23	27	1	1,268,540.4	269,603.9	466.96	4.92	0.00	66	10.0	8.0	Y
R24	29	1	1,268,349.8	270,386.4	481.00	4.92	0.00	66	10.0	8.0	Y
R25	30	1	1,268,247.4	270,556.2	483.00	4.92	0.00	66	10.0	8.0	Y
R26	31	1	1,268,694.2	270,392.5	484.00	4.92	0.00	66	10.0	8.0	Y
R27	32	1	1,268,694.2	270,836.3	486.00	4.92	0.00	66	10.0	8.0	Y
R1 Cemetery entrance south of N.115th											
R2 Cemetery south of N. 115th											
R3 Cemetery entrance south of N. 115th											
R4 Cemetery garden south of N. 115th											
R5 Apartment 1 south of N. 125th											
R6 Apartment 1 parking south of N. 125th											
R7 Apartment 2 south of N. 125th											
R8 Apartment 2 parking south of N. 125th											
R9 Hotel Swimming Pool near N. 125th											
R10 Apartment Parking lot near N. 125th											
R11 125 th Bar and Grill											
R12 Krispe Kreme near N. 125th											
R13 Krispe Kreme parking near N. 125th											
R14 Korea Times Parking north of N. 125th											
R15 Appliance Service Station north of N. 125th											
R16 Park and Ride near N 130th											
R17 Park and Ride near N 130th											
R18 Commercial building parking north of N.130th											
R19 Shopping center parking north of N. 135th											
R20 Liquidator entrance north of N. 135th											
R21 Enterprise Rent-A-Car north of N. 137th											
R22 Enterprise Rent-A-Car parking north of N. 137th											
R23 Commercial building entrance north of N.137th											
R24 Holiday Inn north fo N. 137th											
R25 Holiday Inn parking N. of 137th											
R26 Home along Midvale Ave. N. of N. 140th											
R27 Home along Midvale Ave. N. of N. 143rd											

CH2M HILL
Natalie Lliljenwall

16 May 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: For City of Seattle
RUN: Aurora Avenue North
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R1	1	1	0.0	67.6	66	67.6	10	Snd Lvl	67.6	0.0	8	-8.0
R2	2	1	0.0	65.1	66	65.1	10	----	65.1	0.0	8	-8.0
R3	3	1	0.0	65.5	66	65.5	10	----	65.5	0.0	8	-8.0
R4	4	1	0.0	62.3	66	62.3	10	----	62.3	0.0	8	-8.0
R5	6	1	0.0	68.7	66	68.7	10	Snd Lvl	68.7	0.0	8	-8.0
R6	7	1	0.0	63.9	66	63.9	10	----	63.9	0.0	8	-8.0
R7	8	1	0.0	68.5	66	68.5	10	Snd Lvl	68.5	0.0	8	-8.0
R8	9	1	0.0	66.3	66	66.3	10	Snd Lvl	66.3	0.0	8	-8.0
R9	10	1	0.0	63.7	66	63.7	10	----	63.7	0.0	8	-8.0
R10	11	1	0.0	66.1	66	66.1	10	Snd Lvl	66.1	0.0	8	-8.0
R11	12	1	0.0	66.9	66	66.9	10	Snd Lvl	66.9	0.0	8	-8.0
R12	13	1	0.0	67.4	66	67.4	10	Snd Lvl	67.4	0.0	8	-8.0
R13	14	1	0.0	65.2	66	65.2	10	----	65.2	0.0	8	-8.0
R14	15	1	0.0	66.1	66	66.1	10	Snd Lvl	66.1	0.0	8	-8.0
R15	16	1	0.0	69.1	66	69.1	10	Snd Lvl	69.1	0.0	8	-8.0
R16	17	1	0.0	66.3	66	66.3	10	Snd Lvl	66.3	0.0	8	-8.0
R17	18	1	0.0	56.2	66	56.2	10	----	56.2	0.0	8	-8.0
R18	20	1	0.0	68.5	66	68.5	10	Snd Lvl	68.5	0.0	8	-8.0
R19	22	1	0.0	66.0	66	66.0	10	Snd Lvl	66.0	0.0	8	-8.0
R20	24	1	0.0	67.4	66	67.4	10	Snd Lvl	67.4	0.0	8	-8.0
R21	25	1	0.0	69.5	66	69.5	10	Snd Lvl	69.5	0.0	8	-8.0
R22	26	1	0.0	65.5	66	65.5	10	----	65.5	0.0	8	-8.0
R23	27	1	0.0	66.9	66	66.9	10	Snd Lvl	66.9	0.0	8	-8.0
R24	29	1	0.0	70.9	66	70.9	10	Snd Lvl	70.9	0.0	8	-8.0

R25	30	1	0.0	65.6	66	65.6	10	----	65.6	0.0	8	-8.0
R26	31	1	0.0	60.9	66	60.9	10	----	60.9	0.0	8	-8.0
R27	32	1	0.0	61.1	66	61.1	10	----	61.1	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	27	0.0	0.0	0.0
All Impacted	16	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

CH2M HILL 16 May 2006
Natalie LIljenwall TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: For City of Seattle
RUN: Aurora Avenue North

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway Name	Width	Points Name	No.	Coordinates (pavement) X	Y	Z	Flow Control Control Device	Speed Constraint	Percent Vehicles Affected	Segment Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Aurora Avenue SB to south of 112th	50.0	98+25.00	1	1,268,317.6	263,463.2	365.90				Average	
		98+00.00	2	1,268,317.4	263,438.2	365.80				Average	
		97+75.00	3	1,268,317.2	263,413.2	365.70				Average	
		97+50.00	4	1,268,317.0	263,388.2	365.70				Average	
		97+25.00	5	1,268,316.8	263,363.2	365.60				Average	
		97+00.00	6	1,268,316.5	263,338.2	365.50				Average	
		96+75.00	7	1,268,316.2	263,313.2	365.60				Average	
		96+50.00	8	1,268,316.1	263,288.2	365.70				Average	
		96+25.00	9	1,268,315.9	263,263.2	365.80				Average	
		96+00.00	10	1,268,315.8	263,238.2	365.70				Average	
		95+75.00	11	1,268,315.5	263,213.2	365.70				Average	
		95+50.00	12	1,268,315.2	263,188.2	365.70				Average	
		95+25.00	13	1,268,315.1	263,163.2	365.60				Average	
		95+00.00	14	1,268,314.9	263,138.2	365.50				Average	
		94+75.00	15	1,268,314.8	263,113.2	365.50				Average	
		94+50.00	16	1,268,314.4	263,088.2	365.20				Average	
		94+25.00	17	1,268,314.2	263,063.2	364.90				Average	
		94+00.00	18	1,268,314.0	263,038.2	364.40				Average	
		93+75.00	19	1,268,313.8	263,013.2	363.90				Average	
		93+50.00	20	1,268,313.6	262,988.2	363.30				Average	
		93+25.00	21	1,268,313.4	262,963.2	362.40				Average	
		93+00.00	22	1,268,313.2	262,938.2	361.60				Average	
		92+75.00	23	1,268,313.0	262,913.2	360.80				Average	
		92+50.00	24	1,268,312.8	262,888.2	359.90				Average	
		92+25.00	25	1,268,312.6	262,863.2	359.00				Average	

		92+00.00	26	1,268,312.2	262,838.2	358.10				Average	
		91+75.00	27	1,268,312.1	262,813.2	357.10				Average	
		91+50.00	28	1,268,311.9	262,788.2	356.20				Average	
		91+25.00	29	1,268,311.8	262,763.2	355.30				Average	
		91+00.00	30	1,268,311.5	262,738.2	354.40				Average	
		90+75.00	31	1,268,311.2	262,713.2	353.50				Average	
		90+50.00	32	1,268,311.1	262,688.2	352.60				Average	
		90+25.00	33	1,268,310.9	262,663.2	351.70				Average	
		90+00.00	34	1,268,310.8	262,638.2	350.70				Average	
		89+75.00	35	1,268,310.5	262,613.2	349.80				Average	
		89+50.00	36	1,268,310.2	262,588.2	348.90				Average	
		89+25.00	37	1,268,310.0	262,563.2	348.00				Average	
		89+00.00	38	1,268,309.8	262,538.2	347.10				Average	
		88+75.00	39	1,268,309.6	262,513.2	346.20				Average	
		88+50.00	40	1,268,309.4	262,488.2	345.20				Average	
		88+25.00	41	1,268,309.2	262,463.2	344.30				Average	
		88+00.00	42	1,268,309.0	262,438.2	343.40				Average	
		87+75.00	43	1,268,308.8	262,413.2	342.50				Average	
		87+50.00	44	1,268,308.6	262,388.2	341.60				Average	
		87+25.00	45	1,268,308.4	262,363.2	340.70				Average	
		87+00.00	46	1,268,308.1	262,338.2	339.80				Average	
		86+75.00	47	1,268,307.9	262,313.2	338.90				Average	
		86+50.00	48	1,268,307.8	262,288.2	338.00				Average	
		86+25.00	49	1,268,307.5	262,263.2	337.20				Average	
		86+00.00	50	1,268,307.2	262,238.2	336.50				Average	
		85+75.00	51	1,268,307.1	262,213.2	335.80				Average	
		85+50.00	52	1,268,306.9	262,188.2	335.10				Average	
		85+25.00	53	1,268,306.8	262,163.2	334.90				Average	
		85+00.00	54	1,268,306.5	262,138.2	334.60				Average	
		84+75.00	55	1,268,306.2	262,113.2	334.40				Average	
		84+50.00	56	1,268,306.0	262,088.2	334.20				Average	
		84+25.00	57	1,268,305.8	262,063.2	334.10				Average	
		84+00.00	58	1,268,305.6	262,038.2	334.10				Average	
		83+75.00	59	1,268,305.4	262,013.2	334.00				Average	
		83+50.00	60	1,268,305.2	261,988.2	334.00				Average	
		83+25.00	61	1,268,305.0	261,963.2	333.90				Average	
		83+00.00	62	1,268,304.8	261,938.2	333.90				Average	
		82+75.00	63	1,268,304.6	261,913.2	333.80				Average	
		82+69.62	64	1,268,304.5	261,907.8	333.80					

Aurora Avenue SB 115th	50.0	124+75.00	65	1,268,338.9	266,113.1	417.80				Average	
		124+50.00	66	1,268,338.6	266,088.1	417.60				Average	
		124+25.00	67	1,268,338.4	266,063.1	417.40				Average	
		124+00.00	68	1,268,338.2	266,038.1	417.20				Average	
		123+75.00	69	1,268,338.0	266,013.1	416.90				Average	
		123+50.00	70	1,268,337.8	265,988.1	416.70				Average	
		123+25.00	71	1,268,337.8	265,963.1	416.50				Average	
		123+00.00	72	1,268,337.5	265,938.1	416.30				Average	
		122+75.00	73	1,268,337.2	265,913.1	416.10				Average	
		122+50.00	74	1,268,337.1	265,888.1	415.80				Average	
		122+25.00	75	1,268,336.9	265,863.1	415.60				Average	
		122+00.00	76	1,268,336.8	265,838.1	415.40				Average	
		121+75.00	77	1,268,336.5	265,813.1	415.20				Average	
		121+50.00	78	1,268,336.2	265,788.1	415.00				Average	
		121+25.00	79	1,268,336.1	265,763.1	414.70				Average	
		121+00.00	80	1,268,335.9	265,738.1	414.50				Average	
		120+75.00	81	1,268,335.8	265,713.1	414.30				Average	
		120+50.00	82	1,268,335.5	265,688.1	414.10				Average	
		120+25.00	83	1,268,335.2	265,663.1	413.90				Average	
		120+00.00	84	1,268,335.1	265,638.1	413.60				Average	
		119+75.00	85	1,268,334.9	265,613.1	413.40				Average	
		119+50.00	86	1,268,334.8	265,588.1	413.20				Average	
		119+25.00	87	1,268,334.5	265,563.1	413.00				Average	
		119+00.00	88	1,268,334.2	265,538.1	412.70				Average	
		118+75.00	89	1,268,334.1	265,513.1	412.50				Average	
		118+50.00	90	1,268,333.9	265,488.1	412.30				Average	
		118+25.00	91	1,268,333.8	265,463.1	412.10				Average	
		118+00.00	92	1,268,333.5	265,438.1	411.90				Average	
		117+75.00	93	1,268,333.4	265,413.1	411.60				Average	
		117+50.00	94	1,268,333.2	265,388.1	411.40				Average	
		117+25.00	95	1,268,333.0	265,363.1	411.20				Average	
		117+00.00	96	1,268,332.8	265,338.1	411.00				Average	
		116+75.00	97	1,268,332.6	265,313.1	410.80				Average	
		116+50.00	98	1,268,332.4	265,288.1	410.60				Average	
		116+25.00	99	1,268,332.2	265,263.1	410.40				Average	
		116+00.00	100	1,268,332.0	265,238.1	410.10				Average	
		115+75.00	101	1,268,331.8	265,213.1	409.90				Average	
		115+50.00	102	1,268,331.6	265,188.1	409.60				Average	
		115+25.00	103	1,268,331.4	265,163.1	409.10				Average	

		115+00.00	104	1,268,331.2	265,138.1	408.70				Average	
		114+75.00	105	1,268,331.0	265,113.1	408.20				Average	
		114+50.00	106	1,268,330.8	265,088.1	407.50				Average	
		114+25.00	107	1,268,330.6	265,063.1	406.80				Average	
		114+00.00	108	1,268,330.4	265,038.1	406.10				Average	
		113+75.00	109	1,268,330.2	265,013.1	405.40				Average	
		113+50.00	110	1,268,330.0	264,988.1	404.70				Average	
		113+25.00	111	1,268,329.8	264,963.1	403.90				Average	
		113+00.00	112	1,268,329.6	264,938.1	403.10				Average	
		112+75.00	113	1,268,329.4	264,913.1	402.30				Average	
		112+50.00	114	1,268,329.2	264,888.1	401.50				Average	
		112+25.00	115	1,268,329.1	264,863.1	400.70				Average	
		112+00.00	116	1,268,328.9	264,838.1	399.90				Average	
		111+75.00	117	1,268,328.8	264,813.1	399.10				Average	
		111+50.00	118	1,268,328.5	264,788.1	398.30				Average	
		111+25.00	119	1,268,328.2	264,763.1	397.50				Average	
		111+00.00	120	1,268,328.1	264,738.1	396.60				Average	
		110+75.00	121	1,268,327.9	264,713.1	395.80				Average	
		110+50.00	122	1,268,327.8	264,688.1	395.10				Average	
		110+25.00	123	1,268,327.5	264,663.1	394.30				Average	
		110+00.00	124	1,268,327.2	264,638.1	393.60				Average	
		109+75.00	125	1,268,327.1	264,613.1	392.80				Average	
		109+50.00	126	1,268,326.9	264,588.1	392.10				Average	
		109+25.00	127	1,268,326.8	264,563.1	391.30				Average	
		109+00.00	128	1,268,326.5	264,538.1	390.60				Average	
		108+75.00	129	1,268,326.2	264,513.1	389.80				Average	
		108+50.00	130	1,268,326.1	264,488.1	389.10				Average	
		108+25.00	131	1,268,325.9	264,463.1	388.30				Average	
		108+00.00	132	1,268,325.8	264,438.1	387.60				Average	
		107+75.00	133	1,268,325.5	264,413.1	386.80				Average	
		107+50.00	134	1,268,325.2	264,388.1	386.10				Average	
		107+25.00	135	1,268,325.1	264,363.1	385.30				Average	
		107+00.00	136	1,268,325.0	264,338.1	384.50				Average	
		106+75.00	137	1,268,324.8	264,313.1	383.80				Average	
		106+50.00	138	1,268,324.5	264,288.1	383.00				Average	
		106+25.00	139	1,268,324.2	264,263.1	382.30				Average	
		106+00.00	140	1,268,324.1	264,238.1	381.50				Average	
		105+75.00	141	1,268,323.9	264,213.1	380.80				Average	
		105+50.00	142	1,268,323.8	264,188.1	380.00				Average	

		105+25.00	143	1,268,323.5	264,163.1	379.30				Average	
		105+00.00	144	1,268,323.2	264,138.1	378.50				Average	
		104+75.00	145	1,268,323.1	264,113.1	377.80				Average	
		104+50.00	146	1,268,322.9	264,088.1	377.00				Average	
		104+25.00	147	1,268,322.6	264,063.1	376.30				Average	
		104+00.00	148	1,268,322.4	264,038.1	375.50				Average	
		103+75.00	149	1,268,322.2	264,013.1	374.80				Average	
		103+50.00	150	1,268,322.0	263,988.1	374.00				Average	
		103+25.00	151	1,268,321.8	263,963.1	373.30				Average	
		103+00.00	152	1,268,321.6	263,938.1	372.50				Average	
		102+75.00	153	1,268,321.4	263,913.2	371.70				Average	
		102+50.00	154	1,268,321.2	263,888.2	371.00				Average	
		102+25.00	155	1,268,321.0	263,863.2	370.20				Average	
		102+00.00	156	1,268,320.8	263,838.2	369.50				Average	
		101+75.00	157	1,268,320.5	263,813.2	368.70				Average	
		101+50.00	158	1,268,320.2	263,788.2	368.30				Average	
		101+25.00	159	1,268,320.1	263,763.2	368.00				Average	
		101+00.00	160	1,268,319.9	263,738.2	367.60				Average	
		100+75.00	161	1,268,319.8	263,713.2	367.30				Average	
		100+50.00	162	1,268,319.5	263,688.2	367.00				Average	
		100+25.00	163	1,268,319.2	263,663.2	366.70				Average	
		100+00.00	164	1,268,319.1	263,638.2	366.50				Average	
		99+75.00	165	1,268,318.9	263,613.2	366.40				Average	
		99+50.00	166	1,268,318.8	263,588.2	366.30				Average	
		99+25.00	167	1,268,318.4	263,563.2	366.20				Average	
		99+00.00	168	1,268,318.2	263,538.2	366.20				Average	
		98+75.00	169	1,268,318.0	263,513.2	366.10				Average	
		98+50.00	170	1,268,317.8	263,488.2	366.00					
Aurora Avenue SB to 125th	50.0	134+75.00	171	1,268,352.5	267,113.0	432.30				Average	
		134+50.00	172	1,268,352.2	267,088.0	431.50				Average	
		134+25.00	173	1,268,351.9	267,063.0	430.70				Average	
		134+00.00	174	1,268,351.6	267,038.0	430.00				Average	
		133+75.00	175	1,268,351.2	267,013.0	429.20				Average	
		133+50.00	176	1,268,350.9	266,988.0	428.40				Average	
		133+25.00	177	1,268,350.6	266,963.0	427.70				Average	
		133+00.00	178	1,268,350.2	266,938.0	426.90				Average	
		132+75.00	179	1,268,350.0	266,913.0	426.10				Average	
		132+50.00	180	1,268,349.6	266,888.0	425.40				Average	
		132+25.00	181	1,268,349.2	266,863.0	424.90				Average	

		132+00.00	182	1,268,349.0	266,838.0	424.40				Average	
		131+75.00	183	1,268,348.8	266,813.0	424.00				Average	
		131+50.00	184	1,268,348.4	266,788.0	423.60				Average	
		131+25.00	185	1,268,348.0	266,763.0	423.40				Average	
		131+00.00	186	1,268,347.8	266,738.0	423.20				Average	
		130+75.00	187	1,268,347.2	266,713.0	423.00				Average	
		130+50.00	188	1,268,347.0	266,688.0	422.80				Average	
		130+25.00	189	1,268,346.6	266,663.0	422.70				Average	
		130+00.00	190	1,268,346.2	266,638.0	422.40				Average	
		129+75.00	191	1,268,345.9	266,613.0	422.20				Average	
		129+50.00	192	1,268,345.6	266,588.0	422.00				Average	
		129+25.00	193	1,268,345.2	266,563.0	421.80				Average	
		129+00.00	194	1,268,344.9	266,538.0	421.60				Average	
		128+75.00	195	1,268,344.5	266,513.0	421.30				Average	
		128+50.00	196	1,268,344.2	266,488.0	421.10				Average	
		128+25.00	197	1,268,343.8	266,463.0	420.90				Average	
		128+00.00	198	1,268,343.5	266,438.0	420.70				Average	
		127+75.00	199	1,268,343.1	266,413.1	420.50				Average	
		127+50.00	200	1,268,342.8	266,388.1	420.20				Average	
		127+25.00	201	1,268,342.4	266,363.1	420.00				Average	
		127+00.00	202	1,268,342.1	266,338.1	419.80				Average	
		126+75.00	203	1,268,341.8	266,313.1	419.60				Average	
		126+50.00	204	1,268,341.4	266,288.1	419.40				Average	
		126+25.00	205	1,268,341.0	266,263.1	419.10				Average	
		126+00.00	206	1,268,340.8	266,238.1	418.90				Average	
		125+75.00	207	1,268,340.2	266,213.1	418.70				Average	
		125+50.00	208	1,268,340.0	266,188.1	418.50				Average	
		125+25.00	209	1,268,339.6	266,163.1	418.30				Average	
		125+00.00	210	1,268,339.2	266,138.1	418.00					
Aurora Avenue SB to 128th	50.0	137+75.00	211	1,268,356.2	267,413.0	435.70				Average	
		137+50.00	212	1,268,356.0	267,388.0	435.70				Average	
		137+25.00	213	1,268,355.8	267,363.0	435.70				Average	
		137+00.00	214	1,268,355.4	267,338.0	435.70				Average	
		136+75.00	215	1,268,355.1	267,313.0	435.70				Average	
		136+50.00	216	1,268,354.8	267,288.0	435.50				Average	
		136+25.00	217	1,268,354.4	267,263.0	435.30				Average	
		136+00.00	218	1,268,354.1	267,238.0	435.00				Average	
		135+75.00	219	1,268,353.8	267,213.0	434.80				Average	
		135+50.00	220	1,268,353.5	267,188.0	434.30				Average	

		135+25.00	221	1,268,353.2	267,163.0	433.80				Average	
		135+00.00	222	1,268,352.8	267,138.0	433.00					
Aurora Avenue SB to 130 th	50.0	151+25.00	223	1,268,374.8	268,762.8	442.90				Average	
		151+00.00	224	1,268,374.2	268,737.8	442.40				Average	
		150+75.00	225	1,268,374.0	268,712.8	441.90				Average	
		150+50.00	226	1,268,373.6	268,687.8	441.50				Average	
		150+25.00	227	1,268,373.2	268,662.8	441.20				Average	
		150+00.00	228	1,268,372.9	268,637.8	440.90				Average	
		149+75.00	229	1,268,372.6	268,612.9	440.60				Average	
		149+50.00	230	1,268,372.2	268,587.9	440.40				Average	
		149+25.00	231	1,268,371.8	268,562.9	440.10				Average	
		149+00.00	232	1,268,371.5	268,537.9	439.90				Average	
		148+75.00	233	1,268,371.1	268,512.9	439.60				Average	
		148+50.00	234	1,268,370.8	268,487.9	439.30				Average	
		148+25.00	235	1,268,370.4	268,462.9	439.10				Average	
		148+00.00	236	1,268,370.1	268,437.9	438.80				Average	
		147+75.00	237	1,268,369.8	268,412.9	438.60				Average	
		147+50.00	238	1,268,369.2	268,387.9	438.30				Average	
		147+25.00	239	1,268,369.0	268,362.9	438.10				Average	
		147+00.00	240	1,268,368.6	268,337.9	437.80				Average	
		146+75.00	241	1,268,368.2	268,312.9	437.60				Average	
		146+50.00	242	1,268,367.9	268,287.9	437.30				Average	
		146+25.00	243	1,268,367.6	268,262.9	437.10				Average	
		146+00.00	244	1,268,367.2	268,237.9	436.80				Average	
		145+75.00	245	1,268,366.8	268,212.9	436.60				Average	
		145+50.00	246	1,268,366.5	268,187.9	436.40				Average	
		145+25.00	247	1,268,366.1	268,162.9	436.20				Average	
		145+00.00	248	1,268,365.8	268,137.9	436.10				Average	
		144+75.00	249	1,268,365.4	268,112.9	436.10				Average	
		144+50.00	250	1,268,365.1	268,087.9	436.10				Average	
		144+25.00	251	1,268,364.8	268,062.9	436.00				Average	
		144+00.00	252	1,268,364.2	268,037.9	436.00				Average	
		143+75.00	253	1,268,364.0	268,012.9	436.00				Average	
		143+50.00	254	1,268,363.6	267,987.9	436.00				Average	
		143+25.00	255	1,268,363.2	267,962.9	436.00				Average	
		143+00.00	256	1,268,362.9	267,937.9	436.00				Average	
		142+75.00	257	1,268,362.6	267,912.9	436.00				Average	
		142+50.00	258	1,268,362.2	267,887.9	436.00				Average	
		142+25.00	259	1,268,361.9	267,862.9	435.90				Average	

		142+00.00	260	1,268,361.5	267,837.9	435.90				Average	
		141+75.00	261	1,268,361.1	267,812.9	435.90				Average	
		141+50.00	262	1,268,360.8	267,787.9	435.90				Average	
		141+25.00	263	1,268,360.4	267,762.9	435.90				Average	
		141+00.00	264	1,268,360.1	267,737.9	435.90				Average	
		140+75.00	265	1,268,359.8	267,712.9	435.90				Average	
		140+50.00	266	1,268,359.4	267,687.9	435.90				Average	
		140+25.00	267	1,268,359.0	267,662.9	435.90				Average	
		140+00.00	268	1,268,358.6	267,637.9	435.80				Average	
		139+75.00	269	1,268,358.2	267,613.0	435.80				Average	
		139+50.00	270	1,268,357.9	267,588.0	435.80				Average	
		139+25.00	271	1,268,357.6	267,563.0	435.80				Average	
		139+00.00	272	1,268,357.2	267,538.0	435.80				Average	
		138+75.00	273	1,268,357.1	267,513.0	435.80				Average	
		138+50.00	274	1,268,356.9	267,488.0	435.80				Average	
		138+25.00	275	1,268,356.8	267,463.0	435.80				Average	
		138+00.00	276	1,268,356.6	267,438.0	435.70					
Aurora Avenue SB to 135th	50.0	157+75.00	277	1,268,379.9	269,412.8	464.60				Average	
		157+50.00	278	1,268,379.8	269,387.8	463.70				Average	
		157+25.00	279	1,268,379.5	269,362.8	462.80				Average	
		157+00.00	280	1,268,379.2	269,337.8	461.90				Average	
		156+75.00	281	1,268,379.0	269,312.8	461.10				Average	
		156+50.00	282	1,268,378.8	269,287.8	460.20				Average	
		156+25.00	283	1,268,378.6	269,262.8	459.30				Average	
		156+00.00	284	1,268,378.4	269,237.8	458.40				Average	
		155+75.00	285	1,268,378.2	269,212.8	457.50				Average	
		155+50.00	286	1,268,377.9	269,187.8	456.60				Average	
		155+25.00	287	1,268,377.8	269,162.8	455.80				Average	
		155+00.00	288	1,268,377.5	269,137.8	454.90				Average	
		154+75.00	289	1,268,377.2	269,112.8	454.00				Average	
		154+50.00	290	1,268,377.1	269,087.8	453.10				Average	
		154+25.00	291	1,268,376.9	269,062.8	452.20				Average	
		154+00.00	292	1,268,376.6	269,037.8	451.40				Average	
		153+75.00	293	1,268,376.4	269,012.8	450.50				Average	
		153+50.00	294	1,268,376.2	268,987.8	449.60				Average	
		153+25.00	295	1,268,376.0	268,962.8	448.70				Average	
		153+00.00	296	1,268,375.8	268,937.8	447.80				Average	
		152+75.00	297	1,268,375.6	268,912.8	447.00				Average	
		152+50.00	298	1,268,375.2	268,887.8	446.10				Average	

		152+25.00	299	1,268,375.1	268,862.8	445.30				Average	
		152+00.00	300	1,268,375.0	268,837.8	444.60				Average	
		151+75.00	301	1,268,374.9	268,812.8	443.90				Average	
		151+50.00	302	1,268,374.8	268,787.8	443.40					
Aurora Avenue SB to 137th	50.0	164+50.00	303	1,268,388.0	270,087.8	476.90				Average	
		164+25.00	304	1,268,387.8	270,062.8	476.60				Average	
		164+00.00	305	1,268,387.2	270,037.8	476.30				Average	
		163+75.00	306	1,268,387.0	270,012.8	476.00				Average	
		163+50.00	307	1,268,386.8	269,987.8	475.70				Average	
		163+25.00	308	1,268,386.4	269,962.8	475.40				Average	
		163+00.00	309	1,268,386.1	269,937.8	475.10				Average	
		162+75.00	310	1,268,385.8	269,912.8	474.80				Average	
		162+50.00	311	1,268,385.4	269,887.8	474.50				Average	
		162+25.00	312	1,268,385.1	269,862.8	474.20				Average	
		162+00.00	313	1,268,384.8	269,837.8	473.90				Average	
		161+75.00	314	1,268,384.5	269,812.8	473.60				Average	
		161+50.00	315	1,268,384.2	269,787.8	473.30				Average	
		161+25.00	316	1,268,383.9	269,762.8	473.00				Average	
		161+00.00	317	1,268,383.6	269,737.8	472.70				Average	
		160+75.00	318	1,268,383.2	269,712.8	472.40				Average	
		160+50.00	319	1,268,383.0	269,687.8	472.10				Average	
		160+25.00	320	1,268,382.8	269,662.8	471.80				Average	
		160+00.00	321	1,268,382.4	269,637.8	471.30				Average	
		159+75.00	322	1,268,382.1	269,612.8	470.80				Average	
		159+50.00	323	1,268,381.8	269,587.8	470.20				Average	
		159+25.00	324	1,268,381.5	269,562.8	469.60				Average	
		159+00.00	325	1,268,381.2	269,537.8	468.90				Average	
		158+75.00	326	1,268,380.9	269,512.8	468.00				Average	
		158+50.00	327	1,268,380.6	269,487.8	467.20				Average	
		158+25.00	328	1,268,380.2	269,462.8	466.30				Average	
		158+00.00	329	1,268,380.1	269,437.8	465.40					
Aurora Avenue SB to 140th	50.0	177+75.00	330	1,268,401.9	271,412.7	483.80				Average	
		177+50.00	331	1,268,401.8	271,387.7	484.00				Average	
		177+25.00	332	1,268,401.5	271,362.7	484.10				Average	
		177+00.00	333	1,268,401.2	271,337.7	484.30				Average	
		176+75.00	334	1,268,401.1	271,312.7	484.50				Average	
		176+50.00	335	1,268,400.9	271,287.7	484.60				Average	
		176+25.00	336	1,268,400.8	271,262.7	484.80				Average	
		176+00.00	337	1,268,400.5	271,237.7	484.90				Average	

		175+75.00	338	1,268,400.2	271,212.7	485.10				Average	
		175+50.00	339	1,268,400.1	271,187.7	485.20				Average	
		175+25.00	340	1,268,399.9	271,162.7	485.40				Average	
		175+00.00	341	1,268,399.8	271,137.7	485.50				Average	
		174+75.00	342	1,268,399.5	271,112.7	485.60				Average	
		174+50.00	343	1,268,399.2	271,087.7	485.70				Average	
		174+25.00	344	1,268,399.1	271,062.7	485.70				Average	
		174+00.00	345	1,268,398.9	271,037.7	485.70				Average	
		173+75.00	346	1,268,398.8	271,012.7	485.80				Average	
		173+50.00	347	1,268,398.5	270,987.7	485.80				Average	
		173+25.00	348	1,268,398.2	270,962.7	485.80				Average	
		173+00.00	349	1,268,398.1	270,937.7	485.90				Average	
		172+75.00	350	1,268,397.9	270,912.7	485.90				Average	
		172+50.00	351	1,268,397.8	270,887.7	485.90				Average	
		172+25.00	352	1,268,397.5	270,862.7	486.00				Average	
		172+00.00	353	1,268,397.2	270,837.7	486.00				Average	
		171+75.00	354	1,268,397.1	270,812.7	485.70				Average	
		171+50.00	355	1,268,396.9	270,787.7	485.50				Average	
		171+25.00	356	1,268,396.6	270,762.7	485.20				Average	
		171+00.00	357	1,268,396.2	270,737.7	485.00				Average	
		170+75.00	358	1,268,395.9	270,712.7	484.70				Average	
		170+50.00	359	1,268,395.6	270,687.7	484.40				Average	
		170+25.00	360	1,268,395.2	270,662.7	484.10				Average	
		170+00.00	361	1,268,395.0	270,637.7	483.70				Average	
		169+75.00	362	1,268,394.6	270,612.7	483.40				Average	
		169+50.00	363	1,268,394.2	270,587.7	483.10				Average	
		169+25.00	364	1,268,394.0	270,562.7	482.80				Average	
		169+00.00	365	1,268,393.8	270,537.7	482.50				Average	
		168+75.00	366	1,268,393.4	270,512.7	482.20				Average	
		168+50.00	367	1,268,393.1	270,487.7	481.90				Average	
		168+25.00	368	1,268,392.8	270,462.7	481.50				Average	
		168+00.00	369	1,268,392.4	270,437.7	481.20				Average	
		167+75.00	370	1,268,392.1	270,412.7	480.90				Average	
		167+50.00	371	1,268,391.8	270,387.7	480.60				Average	
		167+25.00	372	1,268,391.5	270,362.7	480.30				Average	
		167+00.00	373	1,268,391.2	270,337.7	480.00				Average	
		166+75.00	374	1,268,390.8	270,312.7	479.70				Average	
		166+50.00	375	1,268,390.5	270,287.7	479.40				Average	
		166+25.00	376	1,268,390.2	270,262.8	479.10				Average	

		166+00.00	377	1,268,389.9	270,237.8	478.80				Average	
		165+75.00	378	1,268,389.6	270,212.8	478.50				Average	
		165+50.00	379	1,268,389.2	270,187.8	478.20				Average	
		165+25.00	380	1,268,388.9	270,162.8	477.90				Average	
		165+00.00	381	1,268,388.6	270,137.8	477.60				Average	
		164+75.00	382	1,268,388.2	270,112.8	477.20					
Aurora Avenue SB to north of 145th	50.0	179+79.04	383	1,268,403.2	271,616.7	482.50				Average	
		179+75.00	384	1,268,403.2	271,612.7	482.60				Average	
		179+50.00	385	1,268,403.1	271,587.7	482.70				Average	
		179+25.00	386	1,268,402.9	271,562.7	482.90				Average	
		179+00.00	387	1,268,402.8	271,537.7	483.00				Average	
		178+75.00	388	1,268,402.6	271,512.7	483.20				Average	
		178+50.00	389	1,268,402.4	271,487.7	483.40				Average	
		178+25.00	390	1,268,402.2	271,462.7	483.50				Average	
		178+00.00	391	1,268,402.1	271,437.7	483.70					
Aurora Avenue NB to 115th	50.0	82+46.00	392	1,268,346.6	261,888.9	333.90				Average	
		82+50.00	393	1,268,346.6	261,892.9	333.90				Average	
		82+75.00	394	1,268,346.9	261,917.9	333.90				Average	
		83+00.00	395	1,268,347.1	261,942.9	333.90				Average	
		83+25.00	396	1,268,347.4	261,967.9	334.00				Average	
		83+50.00	397	1,268,347.6	261,992.9	334.00				Average	
		83+75.00	398	1,268,347.8	262,017.9	334.10				Average	
		84+00.00	399	1,268,348.1	262,042.9	334.10				Average	
		84+25.00	400	1,268,348.2	262,067.9	334.20				Average	
		84+50.00	401	1,268,348.5	262,092.9	334.30				Average	
		84+75.00	402	1,268,348.8	262,117.9	334.30				Average	
		85+00.00	403	1,268,349.0	262,142.9	334.40				Average	
		85+25.00	404	1,268,349.2	262,167.9	334.60				Average	
		85+50.00	405	1,268,349.5	262,192.9	335.20				Average	
		85+75.00	406	1,268,349.8	262,217.9	335.70				Average	
		86+00.00	407	1,268,350.0	262,242.9	336.60				Average	
		86+25.00	408	1,268,350.2	262,267.9	337.50				Average	
		86+50.00	409	1,268,350.5	262,292.9	338.40				Average	
		86+75.00	410	1,268,350.8	262,317.9	339.20				Average	
		87+00.00	411	1,268,350.9	262,342.9	340.10				Average	
		87+25.00	412	1,268,351.2	262,367.9	341.00				Average	
		87+50.00	413	1,268,351.4	262,392.9	341.90				Average	
		87+75.00	414	1,268,351.6	262,417.9	342.80				Average	
		88+00.00	415	1,268,351.9	262,442.9	343.70				Average	

		88+25.00	416	1,268,352.1	262,467.9	344.50				Average	
		88+50.00	417	1,268,352.4	262,492.9	345.40				Average	
		88+75.00	418	1,268,352.6	262,517.9	346.30				Average	
		89+00.00	419	1,268,352.8	262,542.9	347.20				Average	
		89+25.00	420	1,268,353.1	262,567.9	348.10				Average	
		89+50.00	421	1,268,353.2	262,592.9	349.00				Average	
		89+75.00	422	1,268,353.6	262,617.9	349.90				Average	
		90+00.00	423	1,268,353.8	262,642.8	350.90				Average	
		90+25.00	424	1,268,354.0	262,667.8	351.80				Average	
		90+50.00	425	1,268,354.2	262,692.8	352.70				Average	
		90+75.00	426	1,268,354.5	262,717.8	353.70				Average	
		91+00.00	427	1,268,354.8	262,742.8	354.60				Average	
		91+25.00	428	1,268,355.0	262,767.8	355.50				Average	
		91+50.00	429	1,268,355.2	262,792.8	356.50				Average	
		91+75.00	430	1,268,355.4	262,817.8	357.40				Average	
		92+00.00	431	1,268,355.6	262,842.8	358.30				Average	
		92+25.00	432	1,268,355.8	262,867.8	359.10				Average	
		92+50.00	433	1,268,356.0	262,892.8	360.00				Average	
		92+75.00	434	1,268,356.2	262,917.8	360.90				Average	
		93+00.00	435	1,268,356.4	262,942.8	361.80				Average	
		93+25.00	436	1,268,356.6	262,967.8	362.60				Average	
		93+50.00	437	1,268,356.8	262,992.8	363.40				Average	
		93+75.00	438	1,268,357.0	263,017.8	363.90				Average	
		94+00.00	439	1,268,357.2	263,042.8	364.40				Average	
		94+25.00	440	1,268,357.4	263,067.8	364.90				Average	
		94+50.00	441	1,268,357.6	263,092.8	365.30				Average	
		94+75.00	442	1,268,357.8	263,117.8	365.50				Average	
		95+00.00	443	1,268,358.0	263,142.8	365.50				Average	
		95+25.00	444	1,268,358.2	263,167.8	365.50				Average	
		95+50.00	445	1,268,358.4	263,192.8	365.50				Average	
		95+75.00	446	1,268,358.6	263,217.8	365.60				Average	
		96+00.00	447	1,268,358.8	263,242.8	365.60				Average	
		96+25.00	448	1,268,359.0	263,267.8	365.60				Average	
		96+50.00	449	1,268,359.2	263,292.8	365.70				Average	
		96+75.00	450	1,268,359.4	263,317.8	365.70				Average	
		97+00.00	451	1,268,359.5	263,342.8	365.70				Average	
		97+25.00	452	1,268,359.8	263,367.8	365.80				Average	
		97+50.00	453	1,268,359.9	263,392.8	365.80				Average	
		97+75.00	454	1,268,360.1	263,417.8	365.80				Average	

		98+00.00	455	1,268,360.2	263,442.8	365.90				Average	
		98+25.00	456	1,268,360.5	263,467.8	366.00					
Aurora Avenue NB to 125th	50.0	98+50.00	457	1,268,360.8	263,492.8	366.00				Average	
		98+75.00	458	1,268,360.9	263,517.8	366.10				Average	
		99+00.00	459	1,268,361.1	263,542.8	366.20				Average	
		99+25.00	460	1,268,361.2	263,567.8	366.30				Average	
		99+50.00	461	1,268,361.5	263,592.8	366.40				Average	
		99+75.00	462	1,268,361.8	263,617.8	366.50				Average	
		100+00.00	463	1,268,361.9	263,642.8	366.60				Average	
		100+25.00	464	1,268,362.1	263,667.8	366.80				Average	
		100+50.00	465	1,268,362.2	263,692.8	367.10				Average	
		100+75.00	466	1,268,362.5	263,717.8	367.40				Average	
		101+00.00	467	1,268,362.8	263,742.8	367.60				Average	
		101+25.00	468	1,268,362.9	263,767.8	368.00				Average	
		101+50.00	469	1,268,363.1	263,792.8	368.50				Average	
		101+75.00	470	1,268,363.2	263,817.8	368.90				Average	
		102+00.00	471	1,268,363.5	263,842.8	369.40				Average	
		102+25.00	472	1,268,363.8	263,867.8	370.10				Average	
		102+50.00	473	1,268,363.9	263,892.8	370.70				Average	
		102+75.00	474	1,268,364.1	263,917.8	371.40				Average	
		103+00.00	475	1,268,364.2	263,942.8	372.10				Average	
		103+25.00	476	1,268,364.5	263,967.8	372.90				Average	
		103+50.00	477	1,268,364.8	263,992.8	373.60				Average	
		103+75.00	478	1,268,364.9	264,017.8	374.40				Average	
		104+00.00	479	1,268,365.1	264,042.8	375.20				Average	
		104+25.00	480	1,268,365.2	264,067.8	375.90				Average	
		104+50.00	481	1,268,365.5	264,092.8	376.70				Average	
		104+75.00	482	1,268,365.8	264,117.8	377.50				Average	
		105+00.00	483	1,268,365.9	264,142.8	378.20				Average	
		105+25.00	484	1,268,366.1	264,167.8	379.00				Average	
		105+50.00	485	1,268,366.2	264,192.8	379.70				Average	
		105+75.00	486	1,268,366.5	264,217.8	380.50				Average	
		106+00.00	487	1,268,366.8	264,242.8	381.30				Average	
		106+25.00	488	1,268,366.8	264,267.8	382.00				Average	
		106+50.00	489	1,268,367.0	264,292.8	382.80				Average	
		106+75.00	490	1,268,367.2	264,317.8	383.60				Average	
		107+00.00	491	1,268,367.4	264,342.8	384.30				Average	
		107+25.00	492	1,268,367.6	264,367.8	385.10				Average	
		107+50.00	493	1,268,367.8	264,392.8	385.90				Average	

		107+75.00	494	1,268,368.0	264,417.8	386.60				Average	
		108+00.00	495	1,268,368.2	264,442.8	387.40				Average	
		108+25.00	496	1,268,368.4	264,467.8	388.20				Average	
		108+50.00	497	1,268,368.6	264,492.8	389.00				Average	
		108+75.00	498	1,268,368.8	264,517.8	389.80				Average	
		109+00.00	499	1,268,369.0	264,542.8	390.60				Average	
		109+25.00	500	1,268,369.2	264,567.8	391.40				Average	
		109+50.00	501	1,268,369.4	264,592.8	392.20				Average	
		109+75.00	502	1,268,369.6	264,617.8	393.00				Average	
		110+00.00	503	1,268,369.8	264,642.8	393.80				Average	
		110+25.00	504	1,268,370.0	264,667.8	394.60				Average	
		110+50.00	505	1,268,370.2	264,692.8	395.40				Average	
		110+75.00	506	1,268,370.4	264,717.8	396.20				Average	
		111+00.00	507	1,268,370.6	264,742.8	397.00				Average	
		111+25.00	508	1,268,370.8	264,767.8	397.70				Average	
		111+50.00	509	1,268,371.0	264,792.8	398.50				Average	
		111+75.00	510	1,268,371.2	264,817.8	399.30				Average	
		112+00.00	511	1,268,371.4	264,842.8	400.10				Average	
		112+25.00	512	1,268,371.6	264,867.8	400.90				Average	
		112+50.00	513	1,268,371.8	264,892.8	401.70				Average	
		112+75.00	514	1,268,372.0	264,917.8	402.50				Average	
		113+00.00	515	1,268,372.2	264,942.8	403.30				Average	
		113+25.00	516	1,268,372.4	264,967.8	404.10				Average	
		113+50.00	517	1,268,372.6	264,992.8	404.90				Average	
		113+75.00	518	1,268,372.9	265,017.8	405.60				Average	
		114+00.00	519	1,268,373.1	265,042.8	406.30				Average	
		114+25.00	520	1,268,373.2	265,067.8	407.10				Average	
		114+50.00	521	1,268,373.5	265,092.8	407.80				Average	
		114+75.00	522	1,268,373.8	265,117.8	408.30				Average	
		115+00.00	523	1,268,373.9	265,142.8	408.80				Average	
		115+25.00	524	1,268,374.1	265,167.8	409.30				Average	
		115+50.00	525	1,268,374.2	265,192.8	409.70				Average	
		115+75.00	526	1,268,374.5	265,217.8	410.00				Average	
		116+00.00	527	1,268,374.8	265,242.8	410.30				Average	
		116+25.00	528	1,268,375.0	265,267.8	410.60				Average	
		116+50.00	529	1,268,375.2	265,292.8	410.90				Average	
		116+75.00	530	1,268,375.4	265,317.8	411.10				Average	
		117+00.00	531	1,268,375.6	265,342.8	411.30				Average	
		117+25.00	532	1,268,375.8	265,367.8	411.50				Average	

		117+50.00	533	1,268,376.0	265,392.8	411.70				Average	
		117+75.00	534	1,268,376.2	265,417.8	411.90				Average	
		118+00.00	535	1,268,376.4	265,442.8	412.20				Average	
		118+25.00	536	1,268,376.6	265,467.8	412.40				Average	
		118+50.00	537	1,268,376.8	265,492.8	412.60				Average	
		118+75.00	538	1,268,377.0	265,517.8	412.80				Average	
		119+00.00	539	1,268,377.2	265,542.8	413.00				Average	
		119+25.00	540	1,268,377.5	265,567.8	413.30				Average	
		119+50.00	541	1,268,377.8	265,592.8	413.50				Average	
		119+75.00	542	1,268,377.9	265,617.8	413.70				Average	
		120+00.00	543	1,268,378.1	265,642.8	413.90				Average	
		120+25.00	544	1,268,378.2	265,667.8	414.10				Average	
		120+50.00	545	1,268,378.5	265,692.7	414.30				Average	
		120+75.00	546	1,268,378.8	265,717.7	414.50				Average	
		121+00.00	547	1,268,378.9	265,742.7	414.80				Average	
		121+25.00	548	1,268,379.1	265,767.7	415.00				Average	
		121+50.00	549	1,268,379.4	265,792.7	415.20				Average	
		121+75.00	550	1,268,379.6	265,817.7	415.40				Average	
		122+00.00	551	1,268,379.8	265,842.7	415.60				Average	
		122+25.00	552	1,268,380.0	265,867.7	415.80				Average	
		122+50.00	553	1,268,380.2	265,892.7	416.00				Average	
		122+75.00	554	1,268,380.4	265,917.7	416.30				Average	
		123+00.00	555	1,268,380.6	265,942.7	416.50				Average	
		123+25.00	556	1,268,380.8	265,967.7	416.70				Average	
		123+50.00	557	1,268,381.0	265,992.7	416.90				Average	
		123+75.00	558	1,268,381.2	266,017.7	417.10				Average	
		124+00.00	559	1,268,381.5	266,042.7	417.30				Average	
		124+25.00	560	1,268,381.8	266,067.7	417.50				Average	
		124+50.00	561	1,268,381.9	266,092.7	417.80				Average	
		124+75.00	562	1,268,382.1	266,117.7	418.00					
Aurora Avenue NB to 128th	50.0	125+00.00	563	1,268,382.2	266,142.7	418.20				Average	
		125+25.00	564	1,268,382.5	266,167.7	418.40				Average	
		125+50.00	565	1,268,382.8	266,192.7	418.60				Average	
		125+75.00	566	1,268,383.1	266,217.7	418.80				Average	
		126+00.00	567	1,268,383.5	266,242.7	419.00				Average	
		126+25.00	568	1,268,383.8	266,267.7	419.30				Average	
		126+50.00	569	1,268,384.1	266,292.7	419.50				Average	
		126+75.00	570	1,268,384.5	266,317.7	419.70				Average	
		127+00.00	571	1,268,384.8	266,342.7	419.90				Average	

		127+25.00	572	1,268,385.2	266,367.7	420.10				Average	
		127+50.00	573	1,268,385.5	266,392.7	420.30				Average	
		127+75.00	574	1,268,385.9	266,417.7	420.60				Average	
		128+00.00	575	1,268,386.2	266,442.7	420.80				Average	
		128+25.00	576	1,268,386.5	266,467.7	421.00				Average	
		128+50.00	577	1,268,386.9	266,492.7	421.20				Average	
		128+75.00	578	1,268,387.2	266,517.7	421.40				Average	
		129+00.00	579	1,268,387.6	266,542.7	421.60				Average	
		129+25.00	580	1,268,387.9	266,567.7	421.80				Average	
		129+50.00	581	1,268,388.2	266,592.7	422.10				Average	
		129+75.00	582	1,268,388.6	266,617.7	422.30				Average	
		130+00.00	583	1,268,388.9	266,642.7	422.50				Average	
		130+25.00	584	1,268,389.2	266,667.7	422.70				Average	
		130+50.00	585	1,268,389.6	266,692.7	422.90				Average	
		130+75.00	586	1,268,390.0	266,717.7	423.10				Average	
		131+00.00	587	1,268,390.2	266,742.7	423.30				Average	
		131+25.00	588	1,268,390.6	266,767.7	423.60				Average	
		131+50.00	589	1,268,391.0	266,792.7	424.00				Average	
		131+75.00	590	1,268,391.2	266,817.7	424.30				Average	
		132+00.00	591	1,268,391.8	266,842.7	424.60				Average	
		132+25.00	592	1,268,392.0	266,867.7	425.00				Average	
		132+50.00	593	1,268,392.4	266,892.7	425.70				Average	
		132+75.00	594	1,268,392.8	266,917.7	426.50				Average	
		133+00.00	595	1,268,393.0	266,942.7	427.20				Average	
		133+25.00	596	1,268,393.4	266,967.7	428.00				Average	
		133+50.00	597	1,268,393.8	266,992.7	428.70				Average	
		133+75.00	598	1,268,394.1	267,017.7	429.40				Average	
		134+00.00	599	1,268,394.4	267,042.7	430.20				Average	
		134+25.00	600	1,268,394.8	267,067.6	430.90				Average	
		134+50.00	601	1,268,395.1	267,092.6	431.70				Average	
		134+75.00	602	1,268,395.4	267,117.6	432.40					
Aurora Avenue NB to 130th	50.0	135+00.00	603	1,268,395.8	267,142.6	433.20				Average	
		135+25.00	604	1,268,396.1	267,167.6	434.00				Average	
		135+50.00	605	1,268,396.4	267,192.6	434.50				Average	
		135+75.00	606	1,268,396.8	267,217.6	435.00				Average	
		136+00.00	607	1,268,397.1	267,242.6	435.50				Average	
		136+25.00	608	1,268,397.4	267,267.6	435.60				Average	
		136+50.00	609	1,268,397.8	267,292.6	435.70				Average	
		136+75.00	610	1,268,398.0	267,317.6	435.80				Average	

		137+00.00	611	1,268,398.4	267,342.6	435.80				Average	
		137+25.00	612	1,268,398.8	267,367.6	435.80				Average	
		137+50.00	613	1,268,399.0	267,392.6	435.80				Average	
		137+75.00	614	1,268,399.2	267,417.6	435.80					
Aurora Avenue NB to 135th	50.0	138+00.00	615	1,268,399.8	267,442.6	435.80				Average	
		138+25.00	616	1,268,400.0	267,467.6	435.80				Average	
		138+50.00	617	1,268,400.2	267,492.6	435.90				Average	
		138+75.00	618	1,268,400.6	267,517.6	435.90				Average	
		139+00.00	619	1,268,400.9	267,542.6	435.90				Average	
		139+25.00	620	1,268,401.2	267,567.6	435.90				Average	
		139+50.00	621	1,268,401.6	267,592.6	435.90				Average	
		139+75.00	622	1,268,401.9	267,617.6	435.90				Average	
		140+00.00	623	1,268,402.2	267,642.6	435.90				Average	
		140+25.00	624	1,268,402.6	267,667.6	435.90				Average	
		140+50.00	625	1,268,402.9	267,692.6	435.90				Average	
		140+75.00	626	1,268,403.2	267,717.6	435.90				Average	
		141+00.00	627	1,268,403.5	267,742.6	435.90				Average	
		141+25.00	628	1,268,403.8	267,767.6	435.90				Average	
		141+50.00	629	1,268,404.2	267,792.6	435.90				Average	
		141+75.00	630	1,268,404.5	267,817.6	435.90				Average	
		142+00.00	631	1,268,404.8	267,842.6	435.90				Average	
		142+25.00	632	1,268,405.1	267,867.6	435.90				Average	
		142+50.00	633	1,268,405.5	267,892.6	435.90				Average	
		142+75.00	634	1,268,405.8	267,917.6	435.90				Average	
		143+00.00	635	1,268,406.1	267,942.6	435.90				Average	
		143+25.00	636	1,268,406.4	267,967.6	435.90				Average	
		143+50.00	637	1,268,406.8	267,992.6	435.90				Average	
		143+75.00	638	1,268,407.1	268,017.6	435.90				Average	
		144+00.00	639	1,268,407.4	268,042.6	435.90				Average	
		144+25.00	640	1,268,407.8	268,067.6	436.00				Average	
		144+50.00	641	1,268,408.0	268,092.6	436.00				Average	
		144+75.00	642	1,268,408.4	268,117.6	436.00				Average	
		145+00.00	643	1,268,408.8	268,142.6	436.00				Average	
		145+25.00	644	1,268,409.0	268,167.6	436.20				Average	
		145+50.00	645	1,268,409.2	268,192.6	436.50				Average	
		145+75.00	646	1,268,409.6	268,217.6	436.70				Average	
		146+00.00	647	1,268,409.9	268,242.6	436.90				Average	
		146+25.00	648	1,268,410.2	268,267.5	437.10				Average	
		146+50.00	649	1,268,410.5	268,292.5	437.40				Average	

		146+75.00	650	1,268,410.8	268,317.5	437.70				Average	
		147+00.00	651	1,268,411.1	268,342.5	437.90				Average	
		147+25.00	652	1,268,411.4	268,367.5	438.20				Average	
		147+50.00	653	1,268,411.8	268,392.5	438.40				Average	
		147+75.00	654	1,268,412.0	268,417.5	438.70				Average	
		148+00.00	655	1,268,412.4	268,442.5	438.90				Average	
		148+25.00	656	1,268,412.8	268,467.5	439.20				Average	
		148+50.00	657	1,268,413.0	268,492.5	439.40				Average	
		148+75.00	658	1,268,413.2	268,517.5	439.70				Average	
		149+00.00	659	1,268,413.6	268,542.5	440.00				Average	
		149+25.00	660	1,268,413.9	268,567.5	440.20				Average	
		149+50.00	661	1,268,414.2	268,592.5	440.50				Average	
		149+75.00	662	1,268,414.5	268,617.5	440.70				Average	
		150+00.00	663	1,268,414.8	268,642.5	441.00				Average	
		150+25.00	664	1,268,415.1	268,667.5	441.20				Average	
		150+50.00	665	1,268,415.4	268,692.5	441.70				Average	
		150+75.00	666	1,268,415.8	268,717.5	442.20				Average	
		151+00.00	667	1,268,416.0	268,742.5	442.70				Average	
		151+25.00	668	1,268,416.2	268,767.5	443.10					
Aurora Avenue NB to 137th	50.0	151+50.00	669	1,268,416.6	268,792.5	443.60				Average	
		151+75.00	670	1,268,417.0	268,817.5	444.10				Average	
		152+00.00	671	1,268,417.2	268,842.5	444.60				Average	
		152+25.00	672	1,268,417.6	268,867.5	445.40				Average	
		152+50.00	673	1,268,417.9	268,892.5	446.10				Average	
		152+75.00	674	1,268,418.2	268,917.5	446.90				Average	
		153+00.00	675	1,268,418.5	268,942.5	447.70				Average	
		153+25.00	676	1,268,418.8	268,967.5	448.60				Average	
		153+50.00	677	1,268,419.1	268,992.5	449.50				Average	
		153+75.00	678	1,268,419.4	269,017.5	450.40				Average	
		154+00.00	679	1,268,419.8	269,042.5	451.30				Average	
		154+25.00	680	1,268,420.0	269,067.5	452.20				Average	
		154+50.00	681	1,268,420.2	269,092.5	453.10				Average	
		154+75.00	682	1,268,420.6	269,117.5	454.00				Average	
		155+00.00	683	1,268,420.9	269,142.5	454.90				Average	
		155+25.00	684	1,268,421.2	269,167.5	455.80				Average	
		155+50.00	685	1,268,421.6	269,192.5	456.70				Average	
		155+75.00	686	1,268,421.9	269,217.5	457.70				Average	
		156+00.00	687	1,268,422.2	269,242.5	458.60				Average	
		156+25.00	688	1,268,422.5	269,267.5	459.50				Average	

		156+50.00	689	1,268,422.8	269,292.5	460.40				Average	
		156+75.00	690	1,268,423.1	269,317.5	461.30				Average	
		157+00.00	691	1,268,423.4	269,342.5	462.20				Average	
		157+25.00	692	1,268,423.8	269,367.5	463.10				Average	
		157+50.00	693	1,268,424.0	269,392.5	464.00				Average	
		157+75.00	694	1,268,424.2	269,417.5	464.90					
Auora Avenue NB to 140th	50.0	158+00.00	695	1,268,424.6	269,442.5	465.80				Average	
		158+25.00	696	1,268,424.9	269,467.5	466.70				Average	
		158+50.00	697	1,268,425.2	269,492.5	467.50				Average	
		158+75.00	698	1,268,425.5	269,517.5	468.40				Average	
		159+00.00	699	1,268,425.9	269,542.5	469.20				Average	
		159+25.00	700	1,268,426.2	269,567.5	469.90				Average	
		159+50.00	701	1,268,426.5	269,592.4	470.50				Average	
		159+75.00	702	1,268,426.8	269,617.4	471.20				Average	
		160+00.00	703	1,268,427.1	269,642.4	471.60				Average	
		160+25.00	704	1,268,427.4	269,667.4	472.00				Average	
		160+50.00	705	1,268,427.8	269,692.4	472.40				Average	
		160+75.00	706	1,268,428.0	269,717.4	472.70				Average	
		161+00.00	707	1,268,428.2	269,742.4	473.00				Average	
		161+25.00	708	1,268,428.6	269,767.4	473.30				Average	
		161+50.00	709	1,268,428.9	269,792.4	473.60				Average	
		161+75.00	710	1,268,429.2	269,817.4	473.90				Average	
		162+00.00	711	1,268,429.5	269,842.4	474.20				Average	
		162+25.00	712	1,268,429.8	269,867.4	474.50				Average	
		162+50.00	713	1,268,430.1	269,892.4	474.80				Average	
		162+75.00	714	1,268,430.5	269,917.4	475.10				Average	
		163+00.00	715	1,268,430.8	269,942.4	475.40				Average	
		163+25.00	716	1,268,431.1	269,967.4	475.70				Average	
		163+50.00	717	1,268,431.4	269,992.4	476.00				Average	
		163+75.00	718	1,268,431.8	270,017.4	476.30				Average	
		164+00.00	719	1,268,432.0	270,042.4	476.50				Average	
		164+25.00	720	1,268,432.2	270,067.4	476.80				Average	
		164+50.00	721	1,268,432.6	270,092.4	477.10					
Aurora Avenue NB to 145th	50.0	164+75.00	722	1,268,432.9	270,117.4	477.40				Average	
		165+00.00	723	1,268,433.2	270,142.4	477.70				Average	
		165+25.00	724	1,268,433.5	270,167.4	478.00				Average	
		165+50.00	725	1,268,433.8	270,192.4	478.30				Average	
		165+75.00	726	1,268,434.1	270,217.4	478.50				Average	
		166+00.00	727	1,268,434.4	270,242.4	478.80				Average	

		166+25.00	739	1,268,434.8	270,267.4	479.10				Average	
		166+50.00	729	1,268,435.1	270,292.4	479.40				Average	
		166+75.00	730	1,268,435.4	270,317.4	479.70				Average	
		167+00.00	731	1,268,435.8	270,342.4	480.00				Average	
		167+25.00	732	1,268,436.0	270,367.4	480.20				Average	
		167+50.00	733	1,268,436.2	270,392.4	480.60				Average	
		167+75.00	734	1,268,436.6	270,417.4	480.90				Average	
		168+00.00	735	1,268,436.9	270,442.4	481.20				Average	
		168+25.00	736	1,268,437.2	270,467.4	481.50				Average	
		168+50.00	737	1,268,437.5	270,492.4	481.80				Average	
		168+75.00	738	1,268,437.8	270,517.4	482.20				Average	
		169+00.00	739	1,268,438.1	270,542.4	482.50				Average	
		169+25.00	740	1,268,438.4	270,567.4	482.80				Average	
		169+50.00	741	1,268,438.8	270,592.4	483.10				Average	
		169+75.00	742	1,268,439.0	270,617.4	483.50				Average	
		170+00.00	743	1,268,439.4	270,642.4	483.80				Average	
		170+25.00	744	1,268,439.8	270,667.4	484.10				Average	
		170+50.00	745	1,268,440.0	270,692.4	484.40				Average	
		170+75.00	746	1,268,440.2	270,717.4	484.70				Average	
		171+00.00	747	1,268,440.6	270,742.4	484.90				Average	
		171+25.00	748	1,268,440.9	270,767.4	485.10				Average	
		171+50.00	749	1,268,441.2	270,792.4	485.30				Average	
		171+75.00	750	1,268,441.5	270,817.4	485.60				Average	
		172+00.00	751	1,268,441.8	270,842.4	485.70				Average	
		172+25.00	752	1,268,442.1	270,867.4	485.90				Average	
		172+50.00	753	1,268,442.4	270,892.4	485.90				Average	
		172+75.00	754	1,268,442.8	270,917.4	485.90				Average	
		173+00.00	755	1,268,443.0	270,942.3	485.90				Average	
		173+25.00	756	1,268,443.2	270,967.3	485.90				Average	
		173+50.00	757	1,268,443.6	270,992.3	485.90				Average	
		173+75.00	758	1,268,444.0	271,017.3	486.00				Average	
		174+00.00	759	1,268,444.2	271,042.3	485.90				Average	
		174+25.00	760	1,268,444.6	271,067.3	485.80				Average	
		174+50.00	761	1,268,444.9	271,092.3	485.60				Average	
		174+75.00	762	1,268,445.2	271,117.3	485.50				Average	
		175+00.00	763	1,268,445.5	271,142.3	485.30				Average	
		175+25.00	764	1,268,445.8	271,167.3	485.10				Average	
		175+50.00	765	1,268,446.1	271,192.3	485.00				Average	
		175+75.00	766	1,268,446.4	271,217.3	484.80				Average	

		176+00.00	767	1,268,446.8	271,242.3	484.70				Average	
		176+25.00	768	1,268,447.0	271,267.3	484.50				Average	
		176+50.00	769	1,268,447.2	271,292.3	484.30				Average	
		176+75.00	770	1,268,447.6	271,317.3	484.20				Average	
		177+00.00	771	1,268,447.9	271,342.3	484.00				Average	
		177+25.00	772	1,268,448.2	271,367.3	483.90				Average	
		177+50.00	773	1,268,448.6	271,392.3	483.70				Average	
		177+75.00	774	1,268,448.9	271,417.3	483.50					
Aurora Avenue NB north of 145th	50.0	178+00.00	775	1,268,449.2	271,442.3	483.40				Average	
		178+25.00	776	1,268,449.5	271,467.3	483.20				Average	
		178+50.00	777	1,268,449.8	271,492.3	483.10				Average	
		178+75.00	778	1,268,450.1	271,517.3	482.90				Average	
		179+00.00	779	1,268,450.4	271,542.3	482.70				Average	
		179+25.00	780	1,268,450.8	271,567.3	482.60				Average	
		179+50.00	781	1,268,451.0	271,592.3	482.40				Average	
		179+75.00	782	1,268,451.2	271,617.3	482.30				Average	
		179+78.35	783	1,268,451.4	271,620.6	482.20					
N. 145th Street East of Aurora WB	36.0	point935	784	1,268,482.1	271,442.8	483.50				Average	
		point936	785	1,268,966.8	271,441.4	483.50					
N. 145 th Street East of Aurora EB	24.0	point937	786	1,268,964.1	271,414.7	483.50				Average	
		point938	787	1,268,476.9	271,414.7	483.50					
N. 145th Street West of Aurora EB	36.0	point939	788	1,268,376.8	271,413.4	483.50				Average	
		point940	789	1,268,035.0	271,413.4	483.50					
N. 145th Street West of Aurora WB	24.0	point941	790	1,268,030.9	271,449.4	483.50				Average	
		point942	791	1,268,370.0	271,445.4	483.50					
N. 125th Street East of Aurora WB	24.0	point943	792	1,268,974.5	266,161.7	418.00				Average	
		point944	793	1,268,404.6	266,156.0	418.00					
N. 125 th Street West of Aurora WB	24.0	point945	794	1,268,287.2	266,153.1	418.00				Average	
		point946	795	1,267,771.8	266,153.1	418.00					
N. 125th Street West of Aurora EB	24.0	point947	796	1,267,757.4	266,107.3	418.00				Average	
		point948	797	1,268,284.4	266,107.3	418.00					
N. 125th Street East of Aurora EB	12.0	point949	798	1,268,413.2	266,110.2	418.00				Average	
		point950	799	1,268,954.5	266,110.2	418.00					
N 130th Street East of Aurora WB	36.0	point955	800	1,268,826.8	267,424.3	435.80				Average	
		point956	801	1,268,409.0	267,436.7	435.80					
N. 130th Street West of Auora WB	24.0	point957	802	1,268,333.1	267,446.0	435.80				Average	
		point958	803	1,267,986.5	267,446.0	435.80					
N. 130th Street West of Aurora EB	36.0	point959	804	1,267,989.6	267,419.7	435.80				Average	
		point960	805	1,268,333.1	267,419.7	435.80					

N. 130th Street East of Aurora EB	24.0	point961	806	1,268,412.0	267,407.3	435.80				Average	
		point962	807	1,268,811.2	267,393.3	435.80					

CH2M HILL **16 May 2006**
Natalie LIljenwall **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **For City of Seattle**
RUN: **Aurora Avenue North**

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
Aurora Avenue SB to south of 112th	98+25.00	1	1205	35	12	35	12	35	8	35	2	35
	98+00.00	2	1205	35	12	35	12	35	8	35	2	35
	97+75.00	3	1205	35	12	35	12	35	8	35	2	35
	97+50.00	4	1205	35	12	35	12	35	8	35	2	35
	97+25.00	5	1205	35	12	35	12	35	8	35	2	35
	97+00.00	6	1205	35	12	35	12	35	8	35	2	35
	96+75.00	7	1205	35	12	35	12	35	8	35	2	35
	96+50.00	8	1205	35	12	35	12	35	8	35	2	35
	96+25.00	9	1205	35	12	35	12	35	8	35	2	35
	96+00.00	10	1205	35	12	35	12	35	8	35	2	35
	95+75.00	11	1205	35	12	35	12	35	8	35	2	35
	95+50.00	12	1205	35	12	35	12	35	8	35	2	35
	95+25.00	13	1205	35	12	35	12	35	8	35	2	35
	95+00.00	14	1205	35	12	35	12	35	8	35	2	35
	94+75.00	15	1205	35	12	35	12	35	8	35	2	35
	94+50.00	16	1205	35	12	35	12	35	8	35	2	35
	94+25.00	17	1205	35	12	35	12	35	8	35	2	35
	94+00.00	18	1205	35	12	35	12	35	8	35	2	35
	93+75.00	19	1205	35	12	35	12	35	8	35	2	35
	93+50.00	20	1205	35	12	35	12	35	8	35	2	35
	93+25.00	21	1205	35	12	35	12	35	8	35	2	35
	93+00.00	22	1205	35	12	35	12	35	8	35	2	35
	92+75.00	23	1205	35	12	35	12	35	8	35	2	35

	92+50.00	24	1205	35	12	35	12	35	8	35	2	35
	92+25.00	25	1205	35	12	35	12	35	8	35	2	35
	92+00.00	26	1205	35	12	35	12	35	8	35	2	35
	91+75.00	27	1205	35	12	35	12	35	8	35	2	35
	91+50.00	28	1205	35	12	35	12	35	8	35	2	35
	91+25.00	29	1205	35	12	35	12	35	8	35	2	35
	91+00.00	30	1205	35	12	35	12	35	8	35	2	35
	90+75.00	31	1205	35	12	35	12	35	8	35	2	35
	90+50.00	32	1205	35	12	35	12	35	8	35	2	35
	90+25.00	33	1205	35	12	35	12	35	8	35	2	35
	90+00.00	34	1205	35	12	35	12	35	8	35	2	35
	89+75.00	35	1205	35	12	35	12	35	8	35	2	35
	89+50.00	36	1205	35	12	35	12	35	8	35	2	35
	89+25.00	37	1205	35	12	35	12	35	8	35	2	35
	89+00.00	38	1205	35	12	35	12	35	8	35	2	35
	88+75.00	39	1205	35	12	35	12	35	8	35	2	35
	88+50.00	40	1205	35	12	35	12	35	8	35	2	35
	88+25.00	41	1205	35	12	35	12	35	8	35	2	35
	88+00.00	42	1205	35	12	35	12	35	8	35	2	35
	87+75.00	43	1205	35	12	35	12	35	8	35	2	35
	87+50.00	44	1205	35	12	35	12	35	8	35	2	35
	87+25.00	45	1205	35	12	35	12	35	8	35	2	35
	87+00.00	46	1205	35	12	35	12	35	8	35	2	35
	86+75.00	47	1205	35	12	35	12	35	8	35	2	35
	86+50.00	48	1205	35	12	35	12	35	8	35	2	35
	86+25.00	49	1205	35	12	35	12	35	8	35	2	35
	86+00.00	50	1205	35	12	35	12	35	8	35	2	35
	85+75.00	51	1205	35	12	35	12	35	8	35	2	35
	85+50.00	52	1205	35	12	35	12	35	8	35	2	35
	85+25.00	53	1205	35	12	35	12	35	8	35	2	35
	85+00.00	54	1205	35	12	35	12	35	8	35	2	35
	84+75.00	55	1205	35	12	35	12	35	8	35	2	35
	84+50.00	56	1205	35	12	35	12	35	8	35	2	35
	84+25.00	57	1205	35	12	35	12	35	8	35	2	35
	84+00.00	58	1205	35	12	35	12	35	8	35	2	35
	83+75.00	59	1205	35	12	35	12	35	8	35	2	35

	83+50.00	60	1205	35	12	35	12	35	8	35	2	35
	83+25.00	61	1205	35	12	35	12	35	8	35	2	35
	83+00.00	62	1205	35	12	35	12	35	8	35	2	35
	82+75.00	63	1205	35	12	35	12	35	8	35	2	35
	82+69.62	64										
Aurora Avenue SB 115th	124+75.00	65	1303	40	13	40	13	40	8	40	3	40
	124+50.00	66	1303	40	13	40	13	40	8	40	3	40
	124+25.00	67	1303	40	13	40	13	40	8	40	3	40
	124+00.00	68	1303	40	13	40	13	40	8	40	3	40
	123+75.00	69	1303	40	13	40	13	40	8	40	3	40
	123+50.00	70	1303	40	13	40	13	40	8	40	3	40
	123+25.00	71	1303	40	13	40	13	40	8	40	3	40
	123+00.00	72	1303	40	13	40	13	40	8	40	3	40
	122+75.00	73	1303	40	13	40	13	40	8	40	3	40
	122+50.00	74	1303	40	13	40	13	40	8	40	3	40
	122+25.00	75	1303	40	13	40	13	40	8	40	3	40
	122+00.00	76	1303	40	13	40	13	40	8	40	3	40
	121+75.00	77	1303	40	13	40	13	40	8	40	3	40
	121+50.00	78	1303	40	13	40	13	40	8	40	3	40
	121+25.00	79	1303	40	13	40	13	40	8	40	3	40
	121+00.00	80	1303	40	13	40	13	40	8	40	3	40
	120+75.00	81	1303	40	13	40	13	40	8	40	3	40
	120+50.00	82	1303	40	13	40	13	40	8	40	3	40
	120+25.00	83	1303	40	13	40	13	40	8	40	3	40
	120+00.00	84	1303	40	13	40	13	40	8	40	3	40
	119+75.00	85	1303	40	13	40	13	40	8	40	3	40
	119+50.00	86	1303	40	13	40	13	40	8	40	3	40
	119+25.00	87	1303	40	13	40	13	40	8	40	3	40
	119+00.00	88	1303	40	13	40	13	40	8	40	3	40
	118+75.00	89	1303	40	13	40	13	40	8	40	3	40
	118+50.00	90	1303	40	13	40	13	40	8	40	3	40
	118+25.00	91	1303	40	13	40	13	40	8	40	3	40
	118+00.00	92	1303	40	13	40	13	40	8	40	3	40
	117+75.00	93	1303	40	13	40	13	40	8	40	3	40
	117+50.00	94	1303	40	13	40	13	40	8	40	3	40
	117+25.00	95	1303	40	13	40	13	40	8	40	3	40

	117+00.00	96	1303	40	13	40	13	40	8	40	3	40
	116+75.00	97	1303	40	13	40	13	40	8	40	3	40
	116+50.00	98	1303	40	13	40	13	40	8	40	3	40
	116+25.00	99	1303	40	13	40	13	40	8	40	3	40
	116+00.00	100	1303	40	13	40	13	40	8	40	3	40
	115+75.00	101	1303	40	13	40	13	40	8	40	3	40
	115+50.00	102	1303	40	13	40	13	40	8	40	3	40
	115+25.00	103	1303	40	13	40	13	40	8	40	3	40
	115+00.00	104	1303	40	13	40	13	40	8	40	3	40
	114+75.00	105	1303	40	13	40	13	40	8	40	3	40
	114+50.00	106	1303	40	13	40	13	40	8	40	3	40
	114+25.00	107	1303	40	13	40	13	40	8	40	3	40
	114+00.00	108	1303	40	13	40	13	40	8	40	3	40
	113+75.00	109	1303	40	13	40	13	40	8	40	3	40
	113+50.00	110	1303	40	13	40	13	40	8	40	3	40
	113+25.00	111	1303	40	13	40	13	40	8	40	3	40
	113+00.00	112	1303	40	13	40	13	40	8	40	3	40
	112+75.00	113	1303	40	13	40	13	40	8	40	3	40
	112+50.00	114	1303	40	13	40	13	40	8	40	3	40
	112+25.00	115	1303	40	13	40	13	40	8	40	3	40
	112+00.00	116	1303	40	13	40	13	40	8	40	3	40
	111+75.00	117	1303	40	13	40	13	40	8	40	3	40
	111+50.00	118	1303	40	13	40	13	40	8	40	3	40
	111+25.00	119	1303	40	13	40	13	40	8	40	3	40
	111+00.00	120	1303	40	13	40	13	40	8	40	3	40
	110+75.00	121	1303	40	13	40	13	40	8	40	3	40
	110+50.00	122	1303	40	13	40	13	40	8	40	3	40
	110+25.00	123	1303	40	13	40	13	40	8	40	3	40
	110+00.00	124	1303	40	13	40	13	40	8	40	3	40
	109+75.00	125	1303	40	13	40	13	40	8	40	3	40
	109+50.00	126	1303	40	13	40	13	40	8	40	3	40
	109+25.00	127	1303	40	13	40	13	40	8	40	3	40
	109+00.00	128	1303	40	13	40	13	40	8	40	3	40
	108+75.00	129	1303	40	13	40	13	40	8	40	3	40
	108+50.00	130	1303	40	13	40	13	40	8	40	3	40
	108+25.00	131	1303	40	13	40	13	40	8	40	3	40

	108+00.00	132	1303	40	13	40	13	40	8	40	3	40
	107+75.00	133	1303	40	13	40	13	40	8	40	3	40
	107+50.00	134	1303	40	13	40	13	40	8	40	3	40
	107+25.00	135	1303	40	13	40	13	40	8	40	3	40
	107+00.00	136	1303	40	13	40	13	40	8	40	3	40
	106+75.00	137	1303	40	13	40	13	40	8	40	3	40
	106+50.00	138	1303	40	13	40	13	40	8	40	3	40
	106+25.00	139	1303	40	13	40	13	40	8	40	3	40
	106+00.00	140	1303	40	13	40	13	40	8	40	3	40
	105+75.00	141	1303	40	13	40	13	40	8	40	3	40
	105+50.00	142	1303	40	13	40	13	40	8	40	3	40
	105+25.00	143	1303	40	13	40	13	40	8	40	3	40
	105+00.00	144	1303	40	13	40	13	40	8	40	3	40
	104+75.00	145	1303	40	13	40	13	40	8	40	3	40
	104+50.00	146	1303	40	13	40	13	40	8	40	3	40
	104+25.00	147	1303	40	13	40	13	40	8	40	3	40
	104+00.00	148	1303	40	13	40	13	40	8	40	3	40
	103+75.00	149	1303	40	13	40	13	40	8	40	3	40
	103+50.00	150	1303	40	13	40	13	40	8	40	3	40
	103+25.00	151	1303	40	13	40	13	40	8	40	3	40
	103+00.00	152	1303	40	13	40	13	40	8	40	3	40
	102+75.00	153	1303	40	13	40	13	40	8	40	3	40
	102+50.00	154	1303	40	13	40	13	40	8	40	3	40
	102+25.00	155	1303	40	13	40	13	40	8	40	3	40
	102+00.00	156	1303	40	13	40	13	40	8	40	3	40
	101+75.00	157	1303	40	13	40	13	40	8	40	3	40
	101+50.00	158	1303	40	13	40	13	40	8	40	3	40
	101+25.00	159	1303	40	13	40	13	40	8	40	3	40
	101+00.00	160	1303	40	13	40	13	40	8	40	3	40
	100+75.00	161	1303	40	13	40	13	40	8	40	3	40
	100+50.00	162	1303	40	13	40	13	40	8	40	3	40
	100+25.00	163	1303	40	13	40	13	40	8	40	3	40
	100+00.00	164	1303	40	13	40	13	40	8	40	3	40
	99+75.00	165	1303	40	13	40	13	40	8	40	3	40
	99+50.00	166	1303	40	13	40	13	40	8	40	3	40
	99+25.00	167	1303	40	13	40	13	40	8	40	3	40

	99+00.00	168	1303	40	13	40	13	40	8	40	3	40
	98+75.00	169	1303	40	13	40	13	40	8	40	3	40
	98+50.00	170										
Aurora Avenue SB to 125th	134+75.00	171	1254	40	13	40	13	40	8	40	3	40
	134+50.00	172	1254	40	13	40	13	40	8	40	3	40
	134+25.00	173	1254	40	13	40	13	40	8	40	3	40
	134+00.00	174	1254	40	13	40	13	40	8	40	3	40
	133+75.00	175	1254	40	13	40	13	40	8	40	3	40
	133+50.00	176	1254	40	13	40	13	40	8	40	3	40
	133+25.00	177	1254	40	13	40	13	40	8	40	3	40
	133+00.00	178	1254	40	13	40	13	40	8	40	3	40
	132+75.00	179	1254	40	13	40	13	40	8	40	3	40
	132+50.00	180	1254	40	13	40	13	40	8	40	3	40
	132+25.00	181	1254	40	13	40	13	40	8	40	3	40
	132+00.00	182	1254	40	13	40	13	40	8	40	3	40
	131+75.00	183	1254	40	13	40	13	40	8	40	3	40
	131+50.00	184	1254	40	13	40	13	40	8	40	3	40
	131+25.00	185	1254	40	13	40	13	40	8	40	3	40
	131+00.00	186	1254	40	13	40	13	40	8	40	3	40
	130+75.00	187	1254	40	13	40	13	40	8	40	3	40
	130+50.00	188	1254	40	13	40	13	40	8	40	3	40
	130+25.00	189	1254	40	13	40	13	40	8	40	3	40
	130+00.00	190	1254	40	13	40	13	40	8	40	3	40
	129+75.00	191	1254	40	13	40	13	40	8	40	3	40
	129+50.00	192	1254	40	13	40	13	40	8	40	3	40
	129+25.00	193	1254	40	13	40	13	40	8	40	3	40
	129+00.00	194	1254	40	13	40	13	40	8	40	3	40
	128+75.00	195	1254	40	13	40	13	40	8	40	3	40
	128+50.00	196	1254	40	13	40	13	40	8	40	3	40
	128+25.00	197	1254	40	13	40	13	40	8	40	3	40
	128+00.00	198	1254	40	13	40	13	40	8	40	3	40
	127+75.00	199	1254	40	13	40	13	40	8	40	3	40
	127+50.00	200	1254	40	13	40	13	40	8	40	3	40
	127+25.00	201	1254	40	13	40	13	40	8	40	3	40
	127+00.00	202	1254	40	13	40	13	40	8	40	3	40
	126+75.00	203	1254	40	13	40	13	40	8	40	3	40

	126+50.00	204	1254	40	13	40	13	40	8	40	3	40
	126+25.00	205	1254	40	13	40	13	40	8	40	3	40
	126+00.00	206	1254	40	13	40	13	40	8	40	3	40
	125+75.00	207	1254	40	13	40	13	40	8	40	3	40
	125+50.00	208	1254	40	13	40	13	40	8	40	3	40
	125+25.00	209	1254	40	13	40	13	40	8	40	3	40
	125+00.00	210										
Aurora Avenue SB to 128th	137+75.00	211	1259	40	13	40	13	40	8	40	3	40
	137+50.00	212	1259	40	13	40	13	40	8	40	3	40
	137+25.00	213	1259	40	13	40	13	40	8	40	3	40
	137+00.00	214	1259	40	13	40	13	40	8	40	3	40
	136+75.00	215	1259	40	13	40	13	40	8	40	3	40
	136+50.00	216	1259	40	13	40	13	40	8	40	3	40
	136+25.00	217	1259	40	13	40	13	40	8	40	3	40
	136+00.00	218	1259	40	13	40	13	40	8	40	3	40
	135+75.00	219	1259	40	13	40	13	40	8	40	3	40
	135+50.00	220	1259	40	13	40	13	40	8	40	3	40
	135+25.00	221	1259	40	13	40	13	40	8	40	3	40
	135+00.00	222										
Aurora Avenue SB to 130 th	151+25.00	223	1210	40	12	40	12	40	8	40	2	40
	151+00.00	224	1210	40	12	40	12	40	8	40	2	40
	150+75.00	225	1210	40	12	40	12	40	8	40	2	40
	150+50.00	226	1210	40	12	40	12	40	8	40	2	40
	150+25.00	227	1210	40	12	40	12	40	8	40	2	40
	150+00.00	228	1210	40	12	40	12	40	8	40	2	40
	149+75.00	229	1210	40	12	40	12	40	8	40	2	40
	149+50.00	230	1210	40	12	40	12	40	8	40	2	40
	149+25.00	231	1210	40	12	40	12	40	8	40	2	40
	149+00.00	232	1210	40	12	40	12	40	8	40	2	40
	148+75.00	233	1210	40	12	40	12	40	8	40	2	40
	148+50.00	234	1210	40	12	40	12	40	8	40	2	40
	148+25.00	235	1210	40	12	40	12	40	8	40	2	40
	148+00.00	236	1210	40	12	40	12	40	8	40	2	40
	147+75.00	237	1210	40	12	40	12	40	8	40	2	40
	147+50.00	238	1210	40	12	40	12	40	8	40	2	40
	147+25.00	239	1210	40	12	40	12	40	8	40	2	40

	147+00.00	240	1210	40	12	40	12	40	8	40	2	40
	146+75.00	241	1210	40	12	40	12	40	8	40	2	40
	146+50.00	242	1210	40	12	40	12	40	8	40	2	40
	146+25.00	243	1210	40	12	40	12	40	8	40	2	40
	146+00.00	244	1210	40	12	40	12	40	8	40	2	40
	145+75.00	245	1210	40	12	40	12	40	8	40	2	40
	145+50.00	246	1210	40	12	40	12	40	8	40	2	40
	145+25.00	247	1210	40	12	40	12	40	8	40	2	40
	145+00.00	248	1210	40	12	40	12	40	8	40	2	40
	144+75.00	249	1210	40	12	40	12	40	8	40	2	40
	144+50.00	250	1210	40	12	40	12	40	8	40	2	40
	144+25.00	251	1210	40	12	40	12	40	8	40	2	40
	144+00.00	252	1210	40	12	40	12	40	8	40	2	40
	143+75.00	253	1210	40	12	40	12	40	8	40	2	40
	143+50.00	254	1210	40	12	40	12	40	8	40	2	40
	143+25.00	255	1210	40	12	40	12	40	8	40	2	40
	143+00.00	256	1210	40	12	40	12	40	8	40	2	40
	142+75.00	257	1210	40	12	40	12	40	8	40	2	40
	142+50.00	258	1210	40	12	40	12	40	8	40	2	40
	142+25.00	259	1210	40	12	40	12	40	8	40	2	40
	142+00.00	260	1210	40	12	40	12	40	8	40	2	40
	141+75.00	261	1210	40	12	40	12	40	8	40	2	40
	141+50.00	262	1210	40	12	40	12	40	8	40	2	40
	141+25.00	263	1210	40	12	40	12	40	8	40	2	40
	141+00.00	264	1210	40	12	40	12	40	8	40	2	40
	140+75.00	265	1210	40	12	40	12	40	8	40	2	40
	140+50.00	266	1210	40	12	40	12	40	8	40	2	40
	140+25.00	267	1210	40	12	40	12	40	8	40	2	40
	140+00.00	268	1210	40	12	40	12	40	8	40	2	40
	139+75.00	269	1210	40	12	40	12	40	8	40	2	40
	139+50.00	270	1210	40	12	40	12	40	8	40	2	40
	139+25.00	271	1210	40	12	40	12	40	8	40	2	40
	139+00.00	272	1210	40	12	40	12	40	8	40	2	40
	138+75.00	273	1210	40	12	40	12	40	8	40	2	40
	138+50.00	274	1210	40	12	40	12	40	8	40	2	40
	138+25.00	275	1210	40	12	40	12	40	8	40	2	40

	138+00.00	276										
Aurora Avenue SB to 135th	157+75.00	277	1180	40	12	40	12	40	8	40	2	40
	157+50.00	278	1180	40	12	40	12	40	8	40	2	40
	157+25.00	279	1180	40	12	40	12	40	8	40	2	40
	157+00.00	280	1180	40	12	40	12	40	8	40	2	40
	156+75.00	281	1180	40	12	40	12	40	8	40	2	40
	156+50.00	282	1180	40	12	40	12	40	8	40	2	40
	156+25.00	283	1180	40	12	40	12	40	8	40	2	40
	156+00.00	284	1180	40	12	40	12	40	8	40	2	40
	155+75.00	285	1180	40	12	40	12	40	8	40	2	40
	155+50.00	286	1180	40	12	40	12	40	8	40	2	40
	155+25.00	287	1180	40	12	40	12	40	8	40	2	40
	155+00.00	288	1180	40	12	40	12	40	8	40	2	40
	154+75.00	289	1180	40	12	40	12	40	8	40	2	40
	154+50.00	290	1180	40	12	40	12	40	8	40	2	40
	154+25.00	291	1180	40	12	40	12	40	8	40	2	40
	154+00.00	292	1180	40	12	40	12	40	8	40	2	40
	153+75.00	293	1180	40	12	40	12	40	8	40	2	40
	153+50.00	294	1180	40	12	40	12	40	8	40	2	40
	153+25.00	295	1180	40	12	40	12	40	8	40	2	40
	153+00.00	296	1180	40	12	40	12	40	8	40	2	40
	152+75.00	297	1180	40	12	40	12	40	8	40	2	40
	152+50.00	298	1180	40	12	40	12	40	8	40	2	40
	152+25.00	299	1180	40	12	40	12	40	8	40	2	40
	152+00.00	300	1180	40	12	40	12	40	8	40	2	40
	151+75.00	301	1180	40	12	40	12	40	8	40	2	40
	151+50.00	302										
Aurora Avenue SB to 137th	164+50.00	303	1185	40	12	40	12	40	8	40	2	40
	164+25.00	304	1185	40	12	40	12	40	8	40	2	40
	164+00.00	305	1185	40	12	40	12	40	8	40	2	40
	163+75.00	306	1185	40	12	40	12	40	8	40	2	40
	163+50.00	307	1185	40	12	40	12	40	8	40	2	40
	163+25.00	308	1185	40	12	40	12	40	8	40	2	40
	163+00.00	309	1185	40	12	40	12	40	8	40	2	40
	162+75.00	310	1185	40	12	40	12	40	8	40	2	40
	162+50.00	311	1185	40	12	40	12	40	8	40	2	40

	162+25.00	312	1185	40	12	40	12	40	8	40	2	40
	162+00.00	313	1185	40	12	40	12	40	8	40	2	40
	161+75.00	314	1185	40	12	40	12	40	8	40	2	40
	161+50.00	315	1185	40	12	40	12	40	8	40	2	40
	161+25.00	316	1185	40	12	40	12	40	8	40	2	40
	161+00.00	317	1185	40	12	40	12	40	8	40	2	40
	160+75.00	318	1185	40	12	40	12	40	8	40	2	40
	160+50.00	319	1185	40	12	40	12	40	8	40	2	40
	160+25.00	320	1185	40	12	40	12	40	8	40	2	40
	160+00.00	321	1185	40	12	40	12	40	8	40	2	40
	159+75.00	322	1185	40	12	40	12	40	8	40	2	40
	159+50.00	323	1185	40	12	40	12	40	8	40	2	40
	159+25.00	324	1185	40	12	40	12	40	8	40	2	40
	159+00.00	325	1185	40	12	40	12	40	8	40	2	40
	158+75.00	326	1185	40	12	40	12	40	8	40	2	40
	158+50.00	327	1185	40	12	40	12	40	8	40	2	40
	158+25.00	328	1185	40	12	40	12	40	8	40	2	40
	158+00.00	329										
Aurora Avenue SB to 140th	177+75.00	330	1175	40	12	40	12	40	8	40	2	40
	177+50.00	331	1175	40	12	40	12	40	8	40	2	40
	177+25.00	332	1175	40	12	40	12	40	8	40	2	40
	177+00.00	333	1175	40	12	40	12	40	8	40	2	40
	176+75.00	334	1175	40	12	40	12	40	8	40	2	40
	176+50.00	335	1175	40	12	40	12	40	8	40	2	40
	176+25.00	336	1175	40	12	40	12	40	8	40	2	40
	176+00.00	337	1175	40	12	40	12	40	8	40	2	40
	175+75.00	338	1175	40	12	40	12	40	8	40	2	40
	175+50.00	339	1175	40	12	40	12	40	8	40	2	40
	175+25.00	340	1175	40	12	40	12	40	8	40	2	40
	175+00.00	341	1175	40	12	40	12	40	8	40	2	40
	174+75.00	342	1175	40	12	40	12	40	8	40	2	40
	174+50.00	343	1175	40	12	40	12	40	8	40	2	40
	174+25.00	344	1175	40	12	40	12	40	8	40	2	40
	174+00.00	345	1175	40	12	40	12	40	8	40	2	40
	173+75.00	346	1175	40	12	40	12	40	8	40	2	40
	173+50.00	347	1175	40	12	40	12	40	8	40	2	40

	173+25.00	348	1175	40	12	40	12	40	8	40	2	40
	173+00.00	349	1175	40	12	40	12	40	8	40	2	40
	172+75.00	350	1175	40	12	40	12	40	8	40	2	40
	172+50.00	351	1175	40	12	40	12	40	8	40	2	40
	172+25.00	352	1175	40	12	40	12	40	8	40	2	40
	172+00.00	353	1175	40	12	40	12	40	8	40	2	40
	171+75.00	354	1175	40	12	40	12	40	8	40	2	40
	171+50.00	355	1175	40	12	40	12	40	8	40	2	40
	171+25.00	356	1175	40	12	40	12	40	8	40	2	40
	171+00.00	357	1175	40	12	40	12	40	8	40	2	40
	170+75.00	358	1175	40	12	40	12	40	8	40	2	40
	170+50.00	359	1175	40	12	40	12	40	8	40	2	40
	170+25.00	360	1175	40	12	40	12	40	8	40	2	40
	170+00.00	361	1175	40	12	40	12	40	8	40	2	40
	169+75.00	362	1175	40	12	40	12	40	8	40	2	40
	169+50.00	363	1175	40	12	40	12	40	8	40	2	40
	169+25.00	364	1175	40	12	40	12	40	8	40	2	40
	169+00.00	365	1175	40	12	40	12	40	8	40	2	40
	168+75.00	366	1175	40	12	40	12	40	8	40	2	40
	168+50.00	367	1175	40	12	40	12	40	8	40	2	40
	168+25.00	368	1175	40	12	40	12	40	8	40	2	40
	168+00.00	369	1175	40	12	40	12	40	8	40	2	40
	167+75.00	370	1175	40	12	40	12	40	8	40	2	40
	167+50.00	371	1175	40	12	40	12	40	8	40	2	40
	167+25.00	372	1175	40	12	40	12	40	8	40	2	40
	167+00.00	373	1175	40	12	40	12	40	8	40	2	40
	166+75.00	374	1175	40	12	40	12	40	8	40	2	40
	166+50.00	375	1175	40	12	40	12	40	8	40	2	40
	166+25.00	376	1175	40	12	40	12	40	8	40	2	40
	166+00.00	377	1175	40	12	40	12	40	8	40	2	40
	165+75.00	378	1175	40	12	40	12	40	8	40	2	40
	165+50.00	379	1175	40	12	40	12	40	8	40	2	40
	165+25.00	380	1175	40	12	40	12	40	8	40	2	40
	165+00.00	381	1175	40	12	40	12	40	8	40	2	40
	164+75.00	382										
Aurora Avenue SB to north of 145th	179+79.04	383	1122	40	12	40	12	40	8	40	2	40

	179+75.00	384	1122	40	12	40	12	40	8	40	2	40
	179+50.00	385	1122	40	12	40	12	40	8	40	2	40
	179+25.00	386	1122	40	12	40	12	40	8	40	2	40
	179+00.00	387	1122	40	12	40	12	40	8	40	2	40
	178+75.00	388	1122	40	12	40	12	40	8	40	2	40
	178+50.00	389	1122	40	12	40	12	40	8	40	2	40
	178+25.00	390	1122	40	12	40	12	40	8	40	2	40
	178+00.00	391										
Aurora Avenue NB to 115th	82+46.00	392	1663	35	17	35	17	35	9	35	3	35
	82+50.00	393	1663	35	17	35	17	35	9	35	3	35
	82+75.00	394	1663	35	17	35	17	35	9	35	3	35
	83+00.00	395	1663	35	17	35	17	35	9	35	3	35
	83+25.00	396	1663	35	17	35	17	35	9	35	3	35
	83+50.00	397	1663	35	17	35	17	35	9	35	3	35
	83+75.00	398	1663	35	17	35	17	35	9	35	3	35
	84+00.00	399	1663	35	17	35	17	35	9	35	3	35
	84+25.00	400	1663	35	17	35	17	35	9	35	3	35
	84+50.00	401	1663	35	17	35	17	35	9	35	3	35
	84+75.00	402	1663	35	17	35	17	35	9	35	3	35
	85+00.00	403	1663	35	17	35	17	35	9	35	3	35
	85+25.00	404	1663	35	17	35	17	35	9	35	3	35
	85+50.00	405	1663	35	17	35	17	35	9	35	3	35
	85+75.00	406	1663	35	17	35	17	35	9	35	3	35
	86+00.00	407	1663	35	17	35	17	35	9	35	3	35
	86+25.00	408	1663	35	17	35	17	35	9	35	3	35
	86+50.00	409	1663	35	17	35	17	35	9	35	3	35
	86+75.00	410	1663	35	17	35	17	35	9	35	3	35
	87+00.00	411	1663	35	17	35	17	35	9	35	3	35
	87+25.00	412	1663	35	17	35	17	35	9	35	3	35
	87+50.00	413	1663	35	17	35	17	35	9	35	3	35
	87+75.00	414	1663	35	17	35	17	35	9	35	3	35
	88+00.00	415	1663	35	17	35	17	35	9	35	3	35
	88+25.00	416	1663	35	17	35	17	35	9	35	3	35
	88+50.00	417	1663	35	17	35	17	35	9	35	3	35
	88+75.00	418	1663	35	17	35	17	35	9	35	3	35
	89+00.00	419	1663	35	17	35	17	35	9	35	3	35

	89+25.00	420	1663	35	17	35	17	35	9	35	3	35
	89+50.00	421	1663	35	17	35	17	35	9	35	3	35
	89+75.00	422	1663	35	17	35	17	35	9	35	3	35
	90+00.00	423	1663	35	17	35	17	35	9	35	3	35
	90+25.00	424	1663	35	17	35	17	35	9	35	3	35
	90+50.00	425	1663	35	17	35	17	35	9	35	9	35
	90+75.00	426	1663	35	17	35	17	35	9	35	3	35
	91+00.00	427	1663	35	17	35	17	35	9	35	3	35
	91+25.00	428	1663	35	17	35	17	35	9	35	3	35
	91+50.00	429	1663	35	17	35	17	35	9	35	3	35
	91+75.00	430	1663	35	17	35	17	35	9	35	3	35
	92+00.00	431	1663	35	17	35	17	35	9	35	3	35
	92+25.00	432	1663	35	17	35	17	35	9	35	3	35
	92+50.00	433	1663	35	17	35	17	35	9	35	3	35
	92+75.00	434	1663	35	17	35	17	35	9	35	3	35
	93+00.00	435	1663	35	17	35	17	35	9	35	3	35
	93+25.00	436	1663	35	17	35	17	35	9	35	3	35
	93+50.00	437	1663	35	17	35	17	35	9	35	3	35
	93+75.00	438	1663	35	17	35	17	35	9	35	3	35
	94+00.00	439	1663	35	17	35	17	35	9	35	3	35
	94+25.00	440	1663	35	17	35	17	35	9	35	3	35
	94+50.00	441	1663	35	17	35	17	35	9	35	3	35
	94+75.00	442	1663	35	17	35	17	35	9	35	3	35
	95+00.00	443	1663	35	17	35	17	35	9	35	3	35
	95+25.00	444	1663	35	17	35	17	35	9	35	3	35
	95+50.00	445	1663	35	17	35	17	35	9	35	3	35
	95+75.00	446	1663	35	17	35	17	35	9	35	3	35
	96+00.00	447	1663	35	17	35	17	35	9	35	3	35
	96+25.00	448	1663	35	17	35	17	35	9	35	3	35
	96+50.00	449	1663	35	17	35	17	35	9	35	3	35
	96+75.00	450	1663	35	17	35	17	35	9	35	3	35
	97+00.00	451	1663	35	17	35	17	35	9	35	3	35
	97+25.00	452	1663	35	17	35	17	35	9	35	3	35
	97+50.00	453	1663	35	17	35	17	35	9	35	3	35
	97+75.00	454	1663	35	17	35	17	35	9	35	3	35
	98+00.00	455	1663	35	17	35	17	35	9	35	3	35

	98+25.00	456										
Aurora Avenue NB to 125th	98+50.00	457	1756	40	18	40	18	40	9	40	4	40
	98+75.00	458	1756	40	18	40	18	40	9	40	4	40
	99+00.00	459	1756	40	18	40	18	40	9	40	4	40
	99+25.00	460	1756	40	18	40	18	40	9	40	4	40
	99+50.00	461	1756	40	18	40	18	40	9	40	4	40
	99+75.00	462	1756	40	18	40	18	40	9	40	4	40
	100+00.00	463	1756	40	18	40	18	40	9	40	4	40
	100+25.00	464	1756	40	18	40	18	40	9	40	4	40
	100+50.00	465	1756	40	18	40	18	40	9	40	4	40
	100+75.00	466	1756	40	18	40	18	40	9	40	4	40
	101+00.00	467	1756	40	18	40	18	40	9	40	4	40
	101+25.00	468	1756	40	18	40	18	40	9	40	4	40
	101+50.00	469	1756	40	18	40	18	40	9	40	4	40
	101+75.00	470	1756	40	18	40	18	40	9	40	4	40
	102+00.00	471	1756	40	18	40	18	40	9	40	4	40
	102+25.00	472	1756	40	18	40	18	40	9	40	4	40
	102+50.00	473	1756	40	18	40	18	40	9	40	4	40
	102+75.00	474	1756	40	18	40	18	40	9	40	4	40
	103+00.00	475	1756	40	18	40	18	40	9	40	4	40
	103+25.00	476	1756	40	18	40	18	40	9	40	4	40
	103+50.00	477	1756	40	18	40	18	40	9	40	4	40
	103+75.00	478	1756	40	18	40	18	40	9	40	4	40
	104+00.00	479	1756	40	18	40	18	40	9	40	4	40
	104+25.00	480	1756	40	18	40	18	40	9	40	4	40
	104+50.00	481	1756	40	18	40	18	40	9	40	4	40
	104+75.00	482	1756	40	18	40	18	40	9	40	4	40
	105+00.00	483	1756	40	18	40	18	40	9	40	4	40
	105+25.00	484	1756	40	18	40	18	40	9	40	4	40
	105+50.00	485	1756	40	18	40	18	40	9	40	4	40
	105+75.00	486	1756	40	18	40	18	40	9	40	4	40
	106+00.00	487	1756	40	18	40	18	40	9	40	4	40
	106+25.00	488	1756	40	18	40	18	40	9	40	4	40
	106+50.00	489	1756	40	18	40	18	40	9	40	4	40
	106+75.00	490	1756	40	18	40	18	40	9	40	4	40
	107+00.00	491	1756	40	18	40	18	40	9	40	4	40

	107+25.00	492	1756	40	18	40	18	40	9	40	4	40
	107+50.00	493	1756	40	18	40	18	40	9	40	4	40
	107+75.00	494	1756	40	18	40	18	40	9	40	4	40
	108+00.00	495	1756	40	18	40	18	40	9	40	4	40
	108+25.00	496	1756	40	18	40	18	40	9	40	4	40
	108+50.00	497	1756	40	18	40	18	40	9	40	4	40
	108+75.00	498	1756	40	18	40	18	40	9	40	4	40
	109+00.00	499	1756	40	18	40	18	40	9	40	4	40
	109+25.00	500	1756	40	18	40	18	40	9	40	4	40
	109+50.00	501	1756	40	18	40	18	40	9	40	4	40
	109+75.00	502	1756	40	18	40	18	40	9	40	4	40
	110+00.00	503	1756	40	18	40	18	40	9	40	4	40
	110+25.00	504	1756	40	18	40	18	40	9	40	4	40
	110+50.00	505	1756	40	18	40	18	40	9	40	4	40
	110+75.00	506	1756	40	18	40	18	40	9	40	4	40
	111+00.00	507	1756	40	18	40	18	40	9	40	4	40
	111+25.00	508	1756	40	18	40	18	40	9	40	4	40
	111+50.00	509	1756	40	18	40	18	40	9	40	4	40
	111+75.00	510	1756	40	18	40	18	40	9	40	4	40
	112+00.00	511	1756	40	18	40	18	40	9	40	4	40
	112+25.00	512	1756	40	18	40	18	40	9	40	4	40
	112+50.00	513	1756	40	18	40	18	40	9	40	4	40
	112+75.00	514	1756	40	18	40	18	40	9	40	4	40
	113+00.00	515	1756	40	18	40	18	40	9	40	4	40
	113+25.00	516	1756	40	18	40	18	40	9	40	4	40
	113+50.00	517	1756	40	18	40	18	40	9	40	4	40
	113+75.00	518	1756	40	18	40	18	40	9	40	4	40
	114+00.00	519	1756	40	18	40	18	40	9	40	4	40
	114+25.00	520	1756	40	18	40	18	40	9	40	4	40
	114+50.00	521	1756	40	18	40	18	40	9	40	4	40
	114+75.00	522	1756	40	18	40	18	40	9	40	4	40
	115+00.00	523	1756	40	18	40	18	40	9	40	4	40
	115+25.00	524	1756	40	18	40	18	40	9	40	4	40
	115+50.00	525	1756	40	18	40	18	40	9	40	4	40
	115+75.00	526	1756	40	18	40	18	40	9	40	4	40
	116+00.00	527	1756	40	18	40	18	40	9	40	4	40

	116+25.00	528	1756	40	18	40	18	40	9	40	4	40
	116+50.00	529	1756	40	18	40	18	40	9	40	4	40
	116+75.00	530	1756	40	18	40	18	40	9	40	4	40
	117+00.00	531	1756	40	18	40	18	40	9	40	4	40
	117+25.00	532	1756	40	18	40	18	40	9	40	4	40
	117+50.00	533	1756	40	18	40	18	40	9	40	4	40
	117+75.00	534	1756	40	18	40	18	40	9	40	4	40
	118+00.00	535	1756	40	18	40	18	40	9	40	4	40
	118+25.00	536	1756	40	18	40	18	40	9	40	4	40
	118+50.00	537	1756	40	18	40	18	40	9	40	4	40
	118+75.00	538	1756	40	18	40	18	40	9	40	4	40
	119+00.00	539	1756	40	18	40	18	40	9	40	4	40
	119+25.00	540	1756	40	18	40	18	40	9	40	4	40
	119+50.00	541	1756	40	18	40	18	40	9	40	4	40
	119+75.00	542	1756	40	18	40	18	40	9	40	4	40
	120+00.00	543	1756	40	18	40	18	40	9	40	4	40
	120+25.00	544	1756	40	18	40	18	40	9	40	4	40
	120+50.00	545	1756	40	18	40	18	40	9	40	4	40
	120+75.00	546	1756	40	18	40	18	40	9	40	4	40
	121+00.00	547	1756	40	18	40	18	40	9	40	4	40
	121+25.00	548	1756	40	18	40	18	40	9	40	4	40
	121+50.00	549	1756	40	18	40	18	40	9	40	4	40
	121+75.00	550	1756	40	18	40	18	40	9	40	4	40
	122+00.00	551	1756	40	18	40	18	40	9	40	4	40
	122+25.00	552	1756	40	18	40	18	40	9	40	4	40
	122+50.00	553	1756	40	18	40	18	40	9	40	4	40
	122+75.00	554	1756	40	18	40	18	40	9	40	4	40
	123+00.00	555	1756	40	18	40	18	40	9	40	4	40
	123+25.00	556	1756	40	18	40	18	40	9	40	4	40
	123+50.00	557	1756	40	18	40	18	40	9	40	4	40
	123+75.00	558	1756	40	18	40	18	40	9	40	4	40
	124+00.00	559	1756	40	18	40	18	40	9	40	4	40
	124+25.00	560	1756	40	18	40	18	40	9	40	4	40
	124+50.00	561	1756	40	18	40	18	40	9	40	4	40
	124+75.00	562										
Aurora Avenue NB to 128th	125+00.00	563	1820	40	19	40	19	40	9	40	4	40

	125+25.00	564	1820	40	19	40	19	40	9	40	4	40
	125+50.00	565	1820	40	19	40	19	40	9	40	4	40
	125+75.00	566	1820	40	19	40	19	40	9	40	4	40
	126+00.00	567	1820	40	19	40	19	40	9	40	4	40
	126+25.00	568	1820	40	19	40	19	40	9	40	4	40
	126+50.00	569	1820	40	19	40	19	40	9	40	4	40
	126+75.00	570	1820	40	19	40	19	40	9	40	4	40
	127+00.00	571	1820	40	19	40	19	40	9	40	4	40
	127+25.00	572	1820	40	19	40	19	40	9	40	4	40
	127+50.00	573	1820	40	19	40	19	40	9	40	4	40
	127+75.00	574	1820	40	19	40	19	40	9	40	4	40
	128+00.00	575	1820	40	19	40	19	40	9	40	4	40
	128+25.00	576	1820	40	19	40	19	40	9	40	4	40
	128+50.00	577	1820	40	19	40	19	40	9	40	4	40
	128+75.00	578	1820	40	19	40	19	40	9	40	4	40
	129+00.00	579	1820	40	19	40	19	40	9	40	4	40
	129+25.00	580	1820	40	19	40	19	40	9	40	4	40
	129+50.00	581	1820	40	19	40	19	40	9	40	4	40
	129+75.00	582	1820	40	19	40	19	40	9	40	4	40
	130+00.00	583	1820	40	19	40	19	40	9	40	4	40
	130+25.00	584	1820	40	19	40	19	40	9	40	4	40
	130+50.00	585	1820	40	19	40	19	40	9	40	4	40
	130+75.00	586	1820	40	19	40	19	40	9	40	4	40
	131+00.00	587	1820	40	19	40	19	40	9	40	4	40
	131+25.00	588	1820	40	19	40	19	40	9	40	4	40
	131+50.00	589	1820	40	19	40	19	40	9	40	4	40
	131+75.00	590	1820	40	19	40	19	40	9	40	4	40
	132+00.00	591	1820	40	19	40	19	40	9	40	4	40
	132+25.00	592	1820	40	19	40	19	40	9	40	4	40
	132+50.00	593	1820	40	19	40	19	40	9	40	4	40
	132+75.00	594	1820	40	19	40	19	40	9	40	4	40
	133+00.00	595	1820	40	19	40	19	40	9	40	4	40
	133+25.00	596	1820	40	19	40	19	40	9	40	4	40
	133+50.00	597	1820	40	19	40	19	40	9	40	4	40
	133+75.00	598	1820	40	19	40	19	40	9	40	4	40
	134+00.00	599	1820	40	19	40	19	40	9	40	4	40

	134+25.00	600	1820	40	19	40	19	40	9	40	4	40
	134+50.00	601	1820	40	19	40	19	40	9	40	4	40
	134+75.00	602										
Aurora Avenue NB to 130th	135+00.00	603	1732	40	18	40	18	40	9	40	4	40
	135+25.00	604	1732	40	18	40	18	40	9	40	4	40
	135+50.00	605	1732	40	18	40	18	40	9	40	4	40
	135+75.00	606	1732	40	18	40	18	40	9	40	4	40
	136+00.00	607	1732	40	18	40	18	40	9	40	4	40
	136+25.00	608	1732	40	18	40	18	40	9	40	4	40
	136+50.00	609	1732	40	18	40	18	40	9	40	4	40
	136+75.00	610	1732	40	18	40	18	40	9	40	4	40
	137+00.00	611	1732	40	18	40	18	40	9	40	4	40
	137+25.00	612	1732	40	18	40	18	40	9	40	4	40
	137+50.00	613	1732	40	18	40	18	40	9	40	4	40
	137+75.00	614										
Aurora Avenue NB to 135th	138+00.00	615	1786	40	18	40	18	40	9	40	4	40
	138+25.00	616	1786	40	18	40	18	40	9	40	4	40
	138+50.00	617	1786	40	18	40	18	40	9	40	4	40
	138+75.00	618	1786	40	18	40	18	40	9	40	4	40
	139+00.00	619	1786	40	18	40	18	40	9	40	4	40
	139+25.00	620	1786	40	18	40	18	40	9	40	4	40
	139+50.00	621	1786	40	18	40	18	40	9	40	4	40
	139+75.00	622	1786	40	18	40	18	40	9	40	4	40
	140+00.00	623	1786	40	18	40	18	40	9	40	4	40
	140+25.00	624	1786	40	18	40	18	40	9	40	4	40
	140+50.00	625	1786	40	18	40	18	40	9	40	4	40
	140+75.00	626	1786	40	18	40	18	40	9	40	4	40
	141+00.00	627	1786	40	18	40	18	40	9	40	4	40
	141+25.00	628	1786	40	18	40	18	40	9	40	4	40
	141+50.00	629	1786	40	18	40	18	40	9	40	4	40
	141+75.00	630	1786	40	18	40	18	40	9	40	4	40
	142+00.00	631	1786	40	18	40	18	40	9	40	4	40
	142+25.00	632	1786	40	18	40	18	40	9	40	4	40
	142+50.00	633	1786	40	18	40	18	40	9	40	4	40
	142+75.00	634	1786	40	18	40	18	40	9	40	4	40
	143+00.00	635	1786	40	18	40	18	40	9	40	4	40

	143+25.00	636	1786	40	18	40	18	40	9	40	4	40
	143+50.00	637	1786	40	18	40	18	40	9	40	4	40
	143+75.00	638	1786	40	18	40	18	40	9	40	4	40
	144+00.00	639	1786	40	18	40	18	40	9	40	4	40
	144+25.00	640	1786	40	18	40	18	40	9	40	4	40
	144+50.00	641	1786	40	18	40	18	40	9	40	4	40
	144+75.00	642	1786	40	18	40	18	40	9	40	4	40
	145+00.00	643	1786	40	18	40	18	40	9	40	4	40
	145+25.00	644	1786	40	18	40	18	40	9	40	4	40
	145+50.00	645	1786	40	18	40	18	40	9	40	4	40
	145+75.00	646	1786	40	18	40	18	40	9	40	4	40
	146+00.00	647	1786	40	18	40	18	40	9	40	4	40
	146+25.00	648	1786	40	18	40	18	40	9	40	4	40
	146+50.00	649	1786	40	18	40	18	40	9	40	4	40
	146+75.00	650	1786	40	18	40	18	40	9	40	4	40
	147+00.00	651	1786	40	18	40	18	40	9	40	4	40
	147+25.00	652	1786	40	18	40	18	40	9	40	4	40
	147+50.00	653	1786	40	18	40	18	40	9	40	4	40
	147+75.00	654	1786	40	18	40	18	40	9	40	4	40
	148+00.00	655	1786	40	18	40	18	40	9	40	4	40
	148+25.00	656	1786	40	18	40	18	40	9	40	4	40
	148+50.00	657	1786	40	18	40	18	40	9	40	4	40
	148+75.00	658	1786	40	18	40	18	40	9	40	4	40
	149+00.00	659	1786	40	18	40	18	40	9	40	4	40
	149+25.00	660	1786	40	18	40	18	40	9	40	4	40
	149+50.00	661	1786	40	18	40	18	40	9	40	4	40
	149+75.00	662	1786	40	18	40	18	40	9	40	4	40
	150+00.00	663	1786	40	18	40	18	40	9	40	4	40
	150+25.00	664	1786	40	18	40	18	40	9	40	4	40
	150+50.00	665	1786	40	18	40	18	40	9	40	4	40
	150+75.00	666	1786	40	18	40	18	40	9	40	4	40
	151+00.00	667	1786	40	18	40	18	40	9	40	4	40
	151+25.00	668										
Aurora Avenue NB to 137th	151+50.00	669	1918	40	20	40	20	40	9	40	4	40
	151+75.00	670	1918	40	20	40	20	40	9	40	4	40
	152+00.00	671	1918	40	20	40	20	40	9	40	4	40

	152+25.00	672	1918	40	20	40	20	40	9	40	4	40
	152+50.00	673	1918	40	20	40	20	40	9	40	4	40
	152+75.00	674	1918	40	20	40	20	40	9	40	4	40
	153+00.00	675	1918	40	20	40	20	40	9	40	4	40
	153+25.00	676	1918	40	20	40	20	40	9	40	4	40
	153+50.00	677	1918	40	20	40	20	40	9	40	4	40
	153+75.00	678	1918	40	20	40	20	40	9	40	4	40
	154+00.00	679	1918	40	20	40	20	40	9	40	4	40
	154+25.00	680	1918	40	20	40	20	40	9	40	4	40
	154+50.00	681	1918	40	20	40	20	40	9	40	4	40
	154+75.00	682	1918	40	20	40	20	40	9	40	4	40
	155+00.00	683	1918	40	20	40	20	40	9	40	4	40
	155+25.00	684	1918	40	20	40	20	40	9	40	4	40
	155+50.00	685	1918	40	20	40	20	40	9	40	4	40
	155+75.00	686	1918	40	20	40	20	40	9	40	4	40
	156+00.00	687	1918	40	20	40	20	40	9	40	4	40
	156+25.00	688	1918	40	20	40	20	40	9	40	4	40
	156+50.00	689	1918	40	20	40	20	40	9	40	4	40
	156+75.00	690	1918	40	20	40	20	40	9	40	4	40
	157+00.00	691	1918	40	20	40	20	40	9	40	4	40
	157+25.00	692	1918	40	20	40	20	40	9	40	4	40
	157+50.00	693	1918	40	20	40	20	40	9	40	4	40
	157+75.00	694										
Auora Avenue NB to 140th	158+00.00	695	1893	40	19	40	19	40	9	40	4	40
	158+25.00	696	1893	40	19	40	19	40	9	40	4	40
	158+50.00	697	1893	40	19	40	19	40	9	40	4	40
	158+75.00	698	1893	40	19	40	19	40	9	40	4	40
	159+00.00	699	1893	40	19	40	19	40	9	40	4	40
	159+25.00	700	1893	40	19	40	19	40	9	40	4	40
	159+50.00	701	1893	40	19	40	19	40	9	40	4	40
	159+75.00	702	1893	40	19	40	19	40	9	40	4	40
	160+00.00	703	1893	40	19	40	19	40	9	40	4	40
	160+25.00	704	1893	40	19	40	19	40	9	40	4	40
	160+50.00	705	1893	40	19	40	19	40	9	40	4	40
	160+75.00	706	1893	40	19	40	19	40	9	40	4	40
	161+00.00	707	1893	40	19	40	19	40	9	40	4	40

	161+25.00	708	1893	40	19	40	19	40	9	40	4	40
	161+50.00	709	1893	40	19	40	19	40	9	40	4	40
	161+75.00	710	1893	40	19	40	19	40	9	40	4	40
	162+00.00	711	1893	40	19	40	19	40	9	40	4	40
	162+25.00	712	1893	40	19	40	19	40	9	40	4	40
	162+50.00	713	1893	40	19	40	19	40	9	40	4	40
	162+75.00	714	1893	40	19	40	19	40	9	40	4	40
	163+00.00	715	1893	40	19	40	19	40	9	40	4	40
	163+25.00	716	1893	40	19	40	19	40	9	40	4	40
	163+50.00	717	1893	40	19	40	19	40	9	40	4	40
	163+75.00	718	1893	40	19	40	19	40	9	40	4	40
	164+00.00	719	1893	40	19	40	19	40	9	40	4	40
	164+25.00	720	1893	40	19	40	19	40	9	40	4	40
	164+50.00	721										
Aurora Avenue NB to 145th	164+75.00	722	1854	40	19	40	19	40	9	40	4	40
	165+00.00	723	1854	40	19	40	19	40	9	40	4	40
	165+25.00	724	1854	40	19	40	19	40	9	40	4	40
	165+50.00	725	1854	40	19	40	19	40	9	40	4	40
	165+75.00	726	1854	40	19	40	19	40	9	40	4	40
	166+00.00	727	1854	40	19	40	19	40	9	40	4	40
	166+25.00	728	1854	40	19	40	19	40	9	40	4	40
	166+50.00	729	1854	40	19	40	19	40	9	40	4	40
	166+75.00	730	1854	40	19	40	19	40	9	40	4	40
	167+00.00	731	1854	9	19	40	19	40	9	40	4	40
	167+25.00	732	1854	40	19	40	19	40	9	40	4	40
	167+50.00	733	1854	40	19	40	19	40	9	40	4	40
	167+75.00	734	1854	40	19	40	19	40	9	40	4	40
	168+00.00	735	1854	40	19	40	19	40	9	40	4	40
	168+25.00	736	1854	40	19	40	19	40	9	40	4	40
	168+50.00	737	1854	40	19	40	19	40	9	40	4	40
	168+75.00	738	1854	40	19	40	19	40	9	40	4	40
	169+00.00	739	1854	40	19	40	19	40	9	40	4	40
	169+25.00	740	1854	40	19	40	19	40	9	40	4	40
	169+50.00	741	1854	40	19	40	19	40	9	40	4	40
	169+75.00	742	1854	40	19	40	19	40	9	40	4	40
	170+00.00	743	1854	40	19	40	19	40	9	40	4	40

	170+25.00	744	1854	40	19	40	19	40	9	40	4	40
	170+50.00	745	1854	40	19	40	19	40	9	40	4	40
	170+75.00	746	1854	40	19	40	19	40	9	40	4	40
	171+00.00	747	1854	40	19	40	19	40	9	40	4	40
	171+25.00	748	1854	40	19	40	19	40	9	40	4	40
	171+50.00	749	1854	40	19	40	19	40	9	40	4	40
	171+75.00	750	1854	40	19	40	19	40	9	40	4	40
	172+00.00	751	1854	40	19	40	19	40	9	40	4	40
	172+25.00	752	1854	40	19	40	19	40	9	40	4	40
	172+50.00	753	1854	40	19	40	19	40	9	40	4	40
	172+75.00	754	1854	40	19	40	19	40	9	40	4	40
	173+00.00	755	1854	40	19	40	19	40	9	40	4	40
	173+25.00	756	1854	40	19	40	19	40	9	40	4	40
	173+50.00	757	1854	40	19	40	19	40	9	40	4	40
	173+75.00	758	1854	40	19	40	19	40	9	40	4	40
	174+00.00	759	1854	40	19	40	19	40	9	40	4	40
	174+25.00	760	1854	40	19	40	19	40	9	40	4	40
	174+50.00	761	1854	40	19	40	19	40	9	40	4	40
	174+75.00	762	1854	40	19	40	19	40	9	40	4	40
	175+00.00	763	1854	40	19	40	19	40	9	40	4	40
	175+25.00	764	1854	40	19	40	19	40	9	40	4	40
	175+50.00	765	1854	40	19	40	19	40	9	40	4	40
	175+75.00	766	1854	40	19	40	19	40	9	40	4	40
	176+00.00	767	1854	40	19	40	19	40	9	40	4	40
	176+25.00	768	1854	40	19	40	19	40	9	40	4	40
	176+50.00	769	1854	40	19	40	19	40	9	40	4	40
	176+75.00	770	1854	40	19	40	19	40	9	40	4	40
	177+00.00	771	1854	40	19	40	19	40	9	40	4	40
	177+25.00	772	1854	40	19	40	19	40	9	40	4	40
	177+50.00	773	1854	40	19	40	19	40	9	40	4	40
	177+75.00	774										
Aurora Avenue NB north of 145th	178+00.00	775	1800	40	19	40	19	40	9	40	4	40
	178+25.00	776	1800	40	19	40	19	40	9	40	4	40
	178+50.00	777	1800	40	19	40	19	40	9	40	4	40
	178+75.00	778	1800	40	19	40	19	40	9	40	4	40
	179+00.00	779	1800	40	19	40	19	40	9	40	4	40

	179+25.00	780	1800	40	19	40	19	40	9	40	4	40
	179+50.00	781	1800	40	19	40	19	40	9	40	4	40
	179+75.00	782	1800	40	19	40	19	40	9	40	4	40
	179+78.35	783										
N. 145th Street East of Aurora WB	point935	784	946	30	15	30	5	30	3	30	2	30
	point936	785										
N. 145 th Street East of Aurora EB	point937	786	913	30	14	30	5	30	1	30	2	30
	point938	787										
N. 145th Street West of Aurora EB	point939	788	648	30	11	30	4	30	1	30	1	30
	point940	789										
N. 145th Street West of Aurora WB	point941	790	618	30	10	30	3	30	3	30	1	30
	point942	791										
N. 125th Street East of Aurora WB	point943	792	258	25	4	25	1	25	1	25	1	25
	point944	793										
N. 125 th Street West of Aurora WB	point945	794	405	25	6	25	2	25	1	25	1	25
	point946	795										
N. 125th Street West of Aurora EB	point947	796	415	25	6	25	2	25	1	25	1	25
	point948	797										
N. 125th Street East of Aurora EB	point949	798	371	25	6	25	2	25	1	25	1	25
	point950	799										
N 130th Street East of Aurora WB	point955	800	789	25	12	25	4	25	3	25	2	25
	point956	801										
N. 130th Street West of Auora WB	point957	802	647	25	10	25	3	25	3	25	1	25
	point958	803										
N. 130th Street West of Aurora EB	point959	804	545	25	8	25	3	25	3	25	1	25
	point960	805										
N. 130th Street East of Aurora EB	point961	806	638	25	10	25	3	25	3	25	1	25
	point962	807										

CH2M HILL
Natalie LIljenwall

16 May 2006
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: For City of Seattle
RUN: Aurora Avenue North

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R1	1	1	1,268,244.0	262,561.7	354.65	4.92	0.00	66	10.0	8.0	Y
R2	2	1	1,268,208.0	262,839.0	355.96	4.92	0.00	66	10.0	8.0	Y
R3	3	1	1,268,478.0	262,775.4	381.33	4.92	0.00	66	10.0	8.0	Y
R4	4	1	1,268,522.2	262,826.1	352.55	4.92	0.00	66	10.0	8.0	Y
R5	6	1	1,268,455.9	264,525.6	398.29	4.92	0.00	66	10.0	8.0	Y
R6	7	1	1,268,490.0	264,534.2	382.00	4.92	0.00	66	10.0	8.0	Y
R7	8	1	1,268,453.9	264,732.4	395.00	4.92	0.00	66	10.0	8.0	Y
R8	9	1	1,268,500.8	264,704.3	394.00	4.92	0.00	66	10.0	8.0	Y
R9	10	1	1,268,134.5	265,950.6	418.00	4.92	0.00	66	10.0	8.0	Y
R10	11	1	1,268,200.5	265,950.6	417.00	4.92	0.00	66	10.0	8.0	Y
R11	12	1	1,268,192.8	266,074.7	417.00	4.92	0.00	66	10.0	8.0	Y
R12	13	1	1,268,221.8	266,192.4	422.46	4.92	0.00	66	10.0	8.0	Y
R13	14	1	1,268,169.4	266,248.6	422.52	4.92	0.00	66	10.0	8.0	Y
R14	15	1	1,268,521.9	266,458.8	417.00	4.92	0.00	66	10.0	8.0	Y
R15	16	1	1,268,463.8	266,531.2	419.68	4.92	0.00	66	10.0	8.0	Y
R16	17	1	1,268,539.6	267,640.2	435.66	4.92	0.00	66	10.0	8.0	Y
R17	18	1	1,268,700.9	267,713.6	420.00	4.92	0.00	66	10.0	8.0	Y
R18	19	1	1,268,285.1	267,948.8	441.00	4.92	0.00	66	10.0	8.0	Y
R19	24	1	1,268,551.4	268,933.3	446.00	4.92	0.00	66	10.0	8.0	Y
R20	25	1	1,268,283.5	269,205.7	456.30	4.92	0.00	66	10.0	8.0	Y
R21	26	1	1,268,320.0	269,626.3	471.24	4.92	0.00	66	10.0	8.0	Y
R22	27	1	1,268,231.2	269,718.0	473.00	4.92	0.00	66	10.0	8.0	Y

R23	28	1	1,268,540.4	269,603.9	466.96	4.92	0.00	66	10.0	8.0	Y
R24	29	1	1,268,349.8	270,386.4	481.00	4.92	0.00	66	10.0	8.0	Y
R25	30	1	1,268,247.4	270,556.2	483.00	4.92	0.00	66	10.0	8.0	Y
R26	31	1	1,268,694.2	270,392.5	484.00	4.92	0.00	66	10.0	8.0	Y
R27	33	1	1,268,694.2	270,836.3	486.00	4.92	0.00	66	10.0	8.0	Y
R1 Cemetery entrance south of N.115th											
R2 Cemetery south of N. 115th											
R3 Cemetery entrance south of N. 115th											
R4 Cemetery garden south of N. 115th											
R5 Apartment 1 south of N. 125th											
R6 Apartment 1 parking south of N. 125th											
R7 Apartment 2 south of N. 125th											
R8 Apartment 2 parking south of N. 125th											
R9 Hotel Swimming Pool near N. 125th											
R10 Apartment Parking lot near N. 125th											
R11 125 th Bar and Grill											
R12 Krispe Kreme near N. 125th											
R13 Krispe Kreme parking near N. 125th											
R14 Korea Times Parking north of N. 125th											
R15 Appliance Service Station north of N. 125th											
R16 Park and Ride near N 130th											
R17 Park and Ride near N 130th											
R18 Commercial building parking north of N.130th											
R19 Shopping center parking north of N. 135th											
R20 Liquidator entrance north of N. 135th											
R21 Enterprise Rent-A-Car north of N. 137th											
R22 Enterprise Rent-A-Car parking north of N. 137th											
R23 Commercial building entrance north of N.137th											
R24 Holiday Inn north fo N. 137th											
R25 Holiday Inn parking N. of 137th											
R26 Home along Midvale Ave. N. of N. 140th											
R27 Home along Midvale Ave. N. of N. 143rd											

CH2M HILL
Natalie Lliljenwall

16 May 2006
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: For City of Seattle
RUN: Aurora Avenue North
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R1	1	1	0.0	66.5	66	66.5	10	Snd Lvl	66.5	0.0	8	-8.0
R2	2	1	0.0	64.0	66	64.0	10	----	64.0	0.0	8	-8.0
R3	3	1	0.0	64.3	66	64.3	10	----	64.3	0.0	8	-8.0
R4	4	1	0.0	61.2	66	61.2	10	----	61.2	0.0	8	-8.0
R5	6	1	0.0	67.5	66	67.5	10	Snd Lvl	67.5	0.0	8	-8.0
R6	7	1	0.0	62.7	66	62.7	10	----	62.7	0.0	8	-8.0
R7	8	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0
R8	9	1	0.0	65.1	66	65.1	10	----	65.1	0.0	8	-8.0
R9	10	1	0.0	62.5	66	62.5	10	----	62.5	0.0	8	-8.0
R10	11	1	0.0	65.0	66	65.0	10	----	65.0	0.0	8	-8.0
R11	12	1	0.0	65.7	66	65.7	10	----	65.7	0.0	8	-8.0
R12	13	1	0.0	66.3	66	66.3	10	Snd Lvl	66.3	0.0	8	-8.0
R13	14	1	0.0	64.0	66	64.0	10	----	64.0	0.0	8	-8.0
R14	15	1	0.0	65.0	66	65.0	10	----	65.0	0.0	8	-8.0
R15	16	1	0.0	67.9	66	67.9	10	Snd Lvl	67.9	0.0	8	-8.0
R16	17	1	0.0	65.1	66	65.1	10	----	65.1	0.0	8	-8.0
R17	18	1	0.0	55.0	66	55.0	10	----	55.0	0.0	8	-8.0
R18	19	1	0.0	67.4	66	67.4	10	Snd Lvl	67.4	0.0	8	-8.0
R19	24	1	0.0	64.8	66	64.8	10	----	64.8	0.0	8	-8.0
R20	25	1	0.0	66.2	66	66.2	10	Snd Lvl	66.2	0.0	8	-8.0
R21	26	1	0.0	68.3	66	68.3	10	Snd Lvl	68.3	0.0	8	-8.0
R22	27	1	0.0	64.3	66	64.3	10	----	64.3	0.0	8	-8.0
R23	28	1	0.0	65.7	66	65.7	10	----	65.7	0.0	8	-8.0
R24	29	1	0.0	69.8	66	69.8	10	Snd Lvl	69.8	0.0	8	-8.0

R25	30	1	0.0	64.4	66	64.4	10	----	64.4	0.0	8	-8.0
R26	31	1	0.0	59.7	66	59.7	10	----	59.7	0.0	8	-8.0
R27	33	1	0.0	59.9	66	59.9	10	----	59.9	0.0	8	-8.0

Dwelling Units	**# DUs**	**Noise Reduction**		
		Min	**Avg**	**Max**
		dB	**dB**	**dB**
All Selected	27	0.0	0.0	0.0
All Impacted	9	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0