

APPENDIX C

NOISE CALCULATIONS

TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 62nd Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.76

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

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0.0 0.0 0.0 73.2

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Horton Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2300 SPEED (MPH) : 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY

NIGHT

[illegible]

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AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT) : 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.37

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn

65 Ldn

60 Ldn

55 Ldn

Abstract

Abstract

Entity	Product	Volume	Weight	Material	Material	Material
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0.0

0.0

0.0

80.3

TABLE Existing-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Hollis Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY	NIGHT
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AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.14

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
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0.0

0.0

90.4

194.3

TABLE Existing-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 59th Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3600 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.31

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

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0.0 0.0 50.4 108.0

TABLE Ex PP Op1-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 62nd Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Ex PP Op1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2600 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY	NIGHT
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AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.90

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
--------	--------	--------	--------

0.0

0.0

0.0

87.1

TABLE Ex PP Op1-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Horton Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Ex PP Op1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2900 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.37

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

----- ----- ----- -----

0.0 0.0 0.0 93.6

TABLE Ex PP Op1-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Hollis Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Ex PP Op1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.62

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

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0.0 0.0 97.2 209.0

TABLE Ex PP Op1-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 59th Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Ex PP Op1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4600 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.38

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
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0.0	0.0	59.3	127.2

TABLE Ex PP Op2-01

ROADWAY SEGMENT: 62nd Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Ex PP Op2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2600 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY	NIGHT
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31

Variable	Control	Intervention	Mean	SD	95% CI
Age	38.5	38.5	38.5	10.5	38.5
Gender	Male	Male	Male	Male	Male
Education	High school	High school	High school	High school	High school
Marital status	Married	Married	Married	Married	Married
Occupation	Unemployed	Unemployed	Unemployed	Unemployed	Unemployed
Income	Low	Low	Low	Low	Low
Health status	Good	Good	Good	Good	Good
Smoking status	Non-smoker	Non-smoker	Non-smoker	Non-smoker	Non-smoker
Alcohol consumption	None	None	None	None	None
Family size	Small	Small	Small	Small	Small
Religion	Islam	Islam	Islam	Islam	Islam
Urban/rural	Urban	Urban	Urban	Urban	Urban
Season	Winter	Winter	Winter	Winter	Winter
Time of day	Day	Day	Day	Day	Day
Study site	City A	City A	City A	City A	City A
Study duration	6 months	6 months	6 months	6 months	6 months
Sample size	100	100	100	100	100
Response rate	95%	95%	95%	95%	95%
Dropout rate	5%	5%	5%	5%	5%
Follow-up time	12 months	12 months	12 months	12 months	12 months
Assessment tool	Survey	Survey	Survey	Survey	Survey
Statistical analysis	SPSS	SPSS	SPSS	SPSS	SPSS
Ethical approval	Yes	Yes	Yes	Yes	Yes
Consent	Obtained	Obtained	Obtained	Obtained	Obtained
Conflicts of interest	None	None	None	None	None
Limitations	Self-reported data	Self-reported data	Self-reported data	Self-reported data	Self-reported data
Strengths	Large sample size	Large sample size	Large sample size	Large sample size	Large sample size
Conclusion	Significant difference	Significant difference	Significant difference	Significant difference	Significant difference
Recommendations	Further research	Further research	Further research	Further research	Further research
References	1-10	1-10	1-10	1-10	1-10
Appendix	Table 1	Table 1	Table 1	Table 1	Table 1
Supplementary material	Available online	Available online	Available online	Available online	Available online
Correspondence	Dr. X	Dr. X	Dr. X	Dr. X	Dr. X
Address	City A	City A	City A	City A	City A
Phone	0000000000	0000000000	0000000000	0000000000	0000000000
Email	xxxxx@xxxxx	xxxxx@xxxxx	xxxxx@xxxxx	xxxxx@xxxxx	xxxxx@xxxxx
Received	2020-01-01	2020-01-01	2020-01-01	2020-01-01	2020-01-01
Accepted	2020-01-01	2020-01-01	2020-01-01	2020-01-01	2020-01-01
Published	2020-01-01	2020-01-01	2020-01-01	2020-01-01	2020-01-01
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Open Access	Yes	Yes	Yes	Yes	Yes
License	CC-BY	CC-BY	CC-BY	CC-BY	CC-BY
Keywords	Health, Survey, Control, Intervention	Health, Survey, Control, Intervention	Health, Survey, Control, Intervention	Health, Survey, Control, Intervention	Health, Survey, Control, Intervention
Subject	Public Health	Public Health	Public Health	Public Health	Public Health
Category	Healthcare	Healthcare	Healthcare	Healthcare	Healthcare
Section	Research Article	Research Article	Research Article	Research Article	Research Article
Volume	10	10	10	10	10
Issue	1	1	1	1	1
Page	1-10	1-10	1-10	1-10	1-10
DOI	10.1155/2020/1234567	10.1155/2020/1234567	10.1155/2020/1234567	10.1155/2020/1234567	10.1155/2020/1234567
Check for updates	Yes	Yes	Yes	Yes	Yes
Editorial board	Dr. X	Dr. X	Dr. X	Dr. X	Dr. X
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Editorial board	Dr. L	Dr. L	Dr. L	Dr. L	Dr. L
Editor					

AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.90

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

0.0	0.0	0.0	87.1
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TABLE Ex PP Op2-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Horton Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Ex PP Op2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2800 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.22

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn

65 Ldn

60 Ldn

55 Ldn

0.0

0.0

0.0

91.4

TABLE Ex PP Op2-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Hollis Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Ex PP Op2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.83

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn

65 Ldn

60 Ldn

55 Ldn

0.0

0.0

100.4

216.1

TABLE Ex PP Op2-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 59th Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Ex PP Op2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY	NIGHT
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AUTOS

88.08	9.34
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M-TRUCKS

1.65	0.19
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H-TRUCKS

0.66	0.08
------	------

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.08

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
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0.0	0.0	56.7	121.6

TABLE Cumulative NP-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 62nd Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Cumulative NP

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.06

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
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0.0	0.0	0.0	89.3

TABLE Cumulative NP-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Horton Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Cumulative NP

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.80

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn

65 Ldn

60 Ldn

55 Ldn

0.0

0.0

0.0

99.9

TABLE Cumulative NP-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Hollis Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Cumulative NP

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 12700 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.79

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

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0.0 54.2 116.2 250.0

TABLE Cumulative NP-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 59th Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Cumulative NP

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.91

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn

65 Ldn

60 Ldn

55 Ldn

0.0

0.0

64.3

138.0

TABLE Cum PP Op1-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 62nd Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Cum PP Op1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.93

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn

65 Ldn

60 Ldn

55 Ldn

0.0

0.0

0.0

102.0

TABLE Cum PP Op1-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Horton Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Cum PP Op1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3800 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.55

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

----- ----- ----- -----

0.0 0.0 52.3 112.0

TABLE Cum PP Op1-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Hollis Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Cum PP Op1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13800 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.15

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

----- ----- ----- -----

0.0 57.2 122.8 264.2

TABLE Cum PP Op1-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 59th Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Cum PP Op1

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.67

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

----- ----- ----- -----

0.0 0.0 72.2 155.1

TABLE Cum PP Op2-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 62nd Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Cum PP Op2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.93

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

----- ----- ----- -----

0.0 0.0 0.0 102.0

TABLE Cum PP Op2-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Horton Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Cum PP Op2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3800 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

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AUTOS

88.08 9.34

M-TRUCKS

1.65 0.19

H-TRUCKS

0.66 0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.55

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn 65 Ldn 60 Ldn 55 Ldn

----- ----- ----- -----

0.0 0.0 52.3 112.0

TABLE Cum PP Op2-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: Hollis Street - 62nd Street to 59th Street

NOTES: Emeryville Transit Center - Cum PP Op2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14300 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.30

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn

65 Ldn

60 Ldn

55 Ldn

0.0

58.6

125.7

270.6

TABLE Cum PP Op2-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 08/29/2009

ROADWAY SEGMENT: 59th Street - Horton Street to Hollis Street

NOTES: Emeryville Transit Center - Cum PP Op2

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5900 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

DAY NIGHT

AUTOS

88.08

9.34

M-TRUCKS

1.65

0.19

H-TRUCKS

0.66

0.08

ACTIVE HALF-WIDTH (FT): 6

SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.46

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn

65 Ldn

60 Ldn

55 Ldn

0.0

0.0

69.9

150.1