Appendix E

Noise Data

Noise Appendix

A. Construction
B. Operations
C. Mobile Source

Construction

UNMITIGATED - SOIL REMEDIATION

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	**Distance (feet)**	**Attenuation Factors**	**Maximum Construction Noise Level (dBA)**	**Existing Ambient (dBA, Leq)**	**New Ambient (dBA, Leq)**	**Increase**
Onsite Housing	50	0	**89.0**	**71.3**	**89.1**	**17.8**
Jordan Downs High School (onsite-east)	50	0	**89.0**	**76.3**	**89.2**	**12.9**
Residential - West	575	5	**62.8**	**75.1**	**75.3**	**0.2**
Residential - North	250	0	**75.0**	**75.1**	**78.1**	**3.0**
Residential - East	200	5	**72.0**	**76.3**	**77.7**	**1.4**
Residential - South	950	10	**53.4**	**75.6**	**75.6**	**0.0**
Joyner Elementary School (west)	900	10	**53.9**	**73.2**	**73.3**	**0.1**
Weigand Elementary School (south)	1,500	10	**49.5**	**57.7**	**58.3**	**0.6**
Southeast Middle School (east)	800	0	**64.9**	**72.7**	**73.4**	**0.7**
92nd Street Elementary School (north)	1,350	10	**50.4**	**69.9**	**69.9**	**0.0**
Southeast High School (east)	1,350	5	**55.4**	**72.7**	**72.8**	**0.1**

MITIGATED - SOIL REMEDIATION

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	Distance (feet)	Mitigation Factors	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	3	0.0	**86.0**	**71.3**	**86.1**	**14.8**
Jordan Downs High School (onsite-east)	50	3	0.0	**86.0**	**76.3**	**86.4**	**10.1**
Residential - West	575	3	5.0	**59.8**	**75.1**	**75.2**	**0.1**
Residential - North	250	3	0.0	**72.0**	**75.1**	**76.8**	**1.7**
Residential - East	200	3	5.0	**69.0**	**76.3**	**77.0**	**0.7**
Residential - South	950	3	10.0	**50.4**	**75.6**	**75.6**	**0.0**
Joyner Elementary School (west)	900	3	10.0	**50.9**	**73.2**	**73.2**	**0.0**
Weigand Elementary School (south)	1,500	3	10.0	**46.5**	**57.7**	**58.0**	**0.3**
Southeast Middle School (east)	800	3	0.0	**61.9**	**72.7**	**73.0**	**0.3**

UNMITIGATED - PHASE 1

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	0	**89.0**	**71.3**	**89.1**	**17.8**
Jordan Downs High School (onsite-east)	50	0	**89.0**	**76.3**	**89.2**	**12.9**
Residential - West	575	0	**67.8**	**75.1**	**75.8**	**0.7**
Residential - North	250	0	**75.0**	**75.1**	**78.1**	**3.0**
Residential - East	200	5	**72.0**	**76.3**	**77.7**	**1.4**
Residential - South	950	10	**53.4**	**75.6**	**75.6**	**0.0**
Joyner Elementary School (west)	800	10	**54.9**	**73.2**	**73.3**	**0.1**
Weigand Elementary School (south)	1,500	10	**49.5**	**57.7**	**58.3**	**0.6**
Southeast Middle School (east)	800	0	**64.9**	**72.7**	**73.4**	**0.7**
92nd Street Elementary School (north)	1,500	10	**49.5**	**69.9**	**69.9**	**0.0**
Southeast High School (east)	1,350	5	**55.4**	**72.7**	**72.8**	**0.1**

MITIGATED - PHASE 1

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	Distance (feet)	Mitigation Factors	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	3	0.0	**86.0**	**71.3**	**86.1**	**14.8**
Jordan Downs High School (onsite-east)	50	3	0.0	**86.0**	**76.3**	**86.4**	**10.1**
Residential - West	575	3	0.0	**64.8**	**75.1**	**75.5**	**0.4**
Residential - North	250	3	0.0	**72.0**	**75.1**	**76.8**	**1.7**
Residential - East	200	3	5.0	**69.0**	**76.3**	**77.0**	**0.7**
Residential - South	950	3	10.0	**50.4**	**75.6**	**75.6**	**0.0**
Joyner Elementary School (west)	800	3	10.0	**51.9**	**73.2**	**73.2**	**0.0**
Weigand Elementary School (south)	1,500	3	10.0	**46.5**	**57.7**	**58.0**	**0.3**
Southeast Middle School (east)	800	3	0.0	**61.9**	**72.7**	**73.0**	**0.3**

UNMITIGATED - PHASE 2

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	**Distance (feet)**	**Attenuation Factors**	**Maximum Construction Noise Level (dBA)**	**Existing Ambient (dBA, Leq)**	**New Ambient (dBA, Leq)**	**Increase**
Onsite Housing	50	0	**89.0**	**71.3**	**89.1**	**17.8**
Jordan Downs High School (onsite-east)	50	0	**89.0**	**76.3**	**89.2**	**12.9**
Residential - West	575	5	**62.8**	**75.1**	**75.3**	**0.2**
Residential - North	900	5	**58.9**	**75.1**	**75.2**	**0.1**
Residential - East	1,500	5	**54.5**	**76.3**	**76.3**	**0.0**
Residential - South	50	0	**89.0**	**75.6**	**89.2**	**13.6**
Joyner Elementary School (west)	475	0	**69.4**	**73.2**	**74.7**	**1.5**
Weigand Elementary School (south)	630	10	**57.0**	**57.7**	**60.4**	**2.7**
Southeast Middle School (east)	1,800	10	**47.9**	**72.7**	**72.7**	**0.0**
92nd Street Elementary School (north)	2,000	10	**47.0**	**69.9**	**69.9**	**0.0**
Southeast High School (east)	2,600	10	**44.7**	**72.7**	**72.7**	**0.0**

MITIGATED - PHASE 2

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	**Distance (feet)**	**Mitigation Factors**	**Attenuation Factors**	**Maximum Construction Noise Level (dBA)**	**Existing Ambient (dBA, Leq)**	**New Ambient (dBA, Leq)**	**Increase**
Onsite Housing	50	3	0.0	**86.0**	**71.3**	**86.1**	**14.8**
Jordan Downs High School (onsite-east)	50	3	0.0	**86.0**	**76.3**	**86.4**	**10.1**
Residential - West	575	3	5.0	**59.8**	**75.1**	**75.2**	**0.1**
Residential - North	900	3	5.0	**55.9**	**75.1**	**75.2**	**0.1**
Residential - East	1,500	3	5.0	**51.5**	**76.3**	**76.3**	**0.0**
Residential - South	50	3	0.0	**86.0**	**75.6**	**86.4**	**10.8**
Joyner Elementary School (west)	475	3	0.0	**66.4**	**73.2**	**74.0**	**0.8**
Weigand Elementary School (south)	630	3	10.0	**54.0**	**57.7**	**59.2**	**1.5**
Southeast Middle School (east)	1,800	3	10.0	**44.9**	**72.7**	**72.7**	**0.0**

UNMITIGATED - PHASE 3

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	0	**89.0**	**71.3**	**89.1**	**17.8**
Jordan Downs High School (onsite-east)	650	10	**56.7**	**76.3**	**76.3**	**0.0**
Residential - West	50	0	**89.0**	**75.1**	**89.2**	**14.1**
Residential - North	450	5	**64.9**	**75.1**	**75.5**	**0.4**
Residential - East	2,000	10	**47.0**	**76.3**	**76.3**	**0.0**
Residential - South	300	0	**73.4**	**75.6**	**77.7**	**2.1**
Joyner Elementary School (west)	65	0	**86.7**	**73.2**	**86.9**	**13.7**
Weigand Elementary School (south)	1,600	10	**48.9**	**57.7**	**58.2**	**0.5**
Southeast Middle School (east)	2,700	10	**44.4**	**72.7**	**72.7**	**0.0**
92nd Street Elementary School (north)	1,500	10	**49.5**	**69.9**	**69.9**	**0.0**
Southeast High School (east)	3,300	10	**42.6**	**72.7**	**72.7**	**0.0**

MITIGATED - PHASE 3

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	Distance (feet)	Mitigation Factors	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	3	0.0	**86.0**	**71.3**	**86.1**	**14.8**
Jordan Downs High School (onsite-east)	650	3	10.0	**53.7**	**76.3**	**76.3**	**0.0**
Residential - West	50	3	0.0	**86.0**	**75.1**	**86.3**	**11.2**
Residential - North	450	3	5.0	**61.9**	**75.1**	**75.3**	**0.2**
Residential - East	2,000	3	10.0	**44.0**	**76.3**	**76.3**	**0.0**
Residential - South	300	3	0.0	**70.4**	**75.6**	**76.8**	**1.2**
Joyner Elementary School (west)	65	3	0.0	**83.7**	**73.2**	**84.1**	**10.9**
Weigand Elementary School (south)	1,600	3	10.0	**45.9**	**57.7**	**58.0**	**0.3**
Southeast Middle School (east)	2,700	3	10.0	**41.4**	**72.7**	**72.7**	**0.0**

UNMITIGATED - PHASE 4

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	0	**89.0**	**71.3**	**89.1**	**17.8**
Jordan Downs High School (onsite-east)	50	0	**89.0**	**76.3**	**89.2**	**12.9**
Residential - West	50	0	**89.0**	**75.1**	**89.2**	**14.1**
Residential - North	50	0	**89.0**	**75.1**	**89.2**	**14.1**
Residential - East	750	5	**60.5**	**76.3**	**76.4**	**0.1**
Residential - South	50	0	**89.0**	**75.6**	**89.2**	**13.6**
Joyner Elementary School (west)	65	0	**86.7**	**73.2**	**86.9**	**13.7**
Weigand Elementary School (south)	950	10	**53.4**	**57.7**	**59.1**	**1.4**
Southeast Middle School (east)	750	0	**65.5**	**72.7**	**73.5**	**0.8**
92nd Street Elementary School (north)	1,100	10	**52.2**	**69.9**	**70.0**	**0.1**
Southeast High School (east)	1,300	5	**55.7**	**72.7**	**72.8**	**0.1**

MITIGATED - PHASE 4

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	Distance (feet)	Mitigation Factors	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	3	0.0	**86.0**	**71.3**	**86.1**	**14.8**
Jordan Downs High School (onsite-east)	50	3	0.0	**86.0**	**76.3**	**86.4**	**10.1**
Residential - West	50	3	0.0	**86.0**	**75.1**	**86.3**	**11.2**
Residential - North	50	3	0.0	**86.0**	**75.1**	**86.3**	**11.2**
Residential - East	750	3	5.0	**57.5**	**76.3**	**76.4**	**0.1**
Residential - South	50	3	0.0	**86.0**	**75.6**	**86.4**	**10.8**
Joyner Elementary School (west)	65	3	0.0	**83.7**	**73.2**	**84.1**	**10.9**
Weigand Elementary School (south)	950	3	10.0	**50.4**	**57.7**	**58.4**	**0.7**
Southeast Middle School (east)	750	3	0.0	**62.5**	**72.7**	**73.1**	**0.4**

Operations

Stationary Noise

UNMITIGATED

Reference Noise Distance	**50**
Reference Noise Level	**60**

Sensitive Receptor	**Distance (feet)**	**Attenuation Factors**	**Maximum Noise Level (dBA)**	**Existing Ambient (dBA, Leq)**	**New Ambient (dBA, Leq)**	**Increase**
Onsite Housing	50	0	**60.0**	**71.3**	**71.6**	**0.3**
Jordan Downs High School (onsite-east)	50	0	**60.0**	**76.3**	**76.4**	**0.1**
Residential - North	50	0	**60.0**	**75.1**	**75.2**	**0.1**
Residential - East	200	5	**43.0**	**76.3**	**76.3**	**0.0**
Residential - South	50	0	**60.0**	**75.6**	**75.7**	**0.1**

Truck Noise

UNMITIGATED

Reference Noise Distance	**50**
Reference Noise Level	**89**

Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	0	**89.0**	**71.3**	**89.1**	**17.8**
Jordan Downs High School (onsite-east)	50	0	**89.0**	**76.3**	**89.2**	**12.9**
Residential - North	200	5	**72.0**	**75.1**	**76.8**	**1.7**
Residential - East	200	5	**72.0**	**76.3**	**77.7**	**1.4**
Residential - South	500	5	**64.0**	**75.6**	**75.9**	**0.3**

Parking Noise

UNMITIGATED

Reference Noise Distance	**50**
Reference Noise Level	**58.1**

Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	0	**58.1**	**71.3**	**71.5**	**0.2**
Jordan Downs High School (onsite-east)	50	0	**58.1**	**76.3**	**76.4**	**0.1**
Residential - North	200	0	**46.1**	**75.1**	**75.1**	**0.0**
Residential - East	200	5	**41.1**	**76.3**	**76.3**	**0.0**
Residential - South	1,400	0	**29.2**	**75.6**	**75.6**	**0.0**

Composite Noise

UNMITIGATED

Reference Noise Distance	**50**
Reference Noise Level	**58.1**

Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Onsite Housing	50	0	**89.0**	**71.3**	**89.1**	**17.8**
Jordan Downs High School (onsite-east)	50	0	**89.0**	**76.3**	**89.2**	**12.9**
Residential - North	200	0	**72.2**	**75.1**	**76.9**	**1.8**
Residential - East	200	5	**72.0**	**76.3**	**77.7**	**1.4**
Residential - South	1,400	0	**65.5**	**75.6**	**76.0**	**0.4**

Mobile Source

CNEL Noise Estimates for the Proposed Project - Based on AM Peak Hour

Existing

ROAD SEGMENT	from:	to:	TOT. # VEH.	EQUIVALENT LANE DISTANCE D1	D2	Eq. Dis.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	50 ft ROW CNEL (dBA)
97th Street	Grape St	Alameda St	357	6	18	10	91	324	6	21.4	6	21.4	25	40	25	40	25	40	55.2	55.1	62.7	63.2
97th Street	Grape St	Wilmington Ave	468	6	18	10	91	426	6	28.1	6	28.1	25	40	25	40	25	40	56.4	56.2	63.9	64.4
103rd St	Grape St	Alameda St	753	16	28	21	91	685	6	45.2	6	45.2	25	40	25	40	25	40	58.5	58.3	65.9	65.7
103rd St	Grape St	Wilmington Ave	873	16	28	21	91	794	6	52.4	6	52.4	25	40	25	40	25	40	59.1	58.9	66.6	66.4
Century Blvd (ext)	Grape St	Alameda St	35	13	25	18	95	33.3	2.5	0.88	2.5	0.88	25	40	25	40	25	40	45.3	41.2	48.8	49.6
Century Blvd	Compton	Grape	484	13	25	18	91	440	6	29	3	14.5	25	40	25	40	25	40	56.5	56.4	61.0	62.0
Tweedy Blvd	Alameda St	Long Beach Blvd	1491	16	52	29	91	1356	6	89.4	3	44.7	25	40	25	40	25	40	61.4	61.3	65.9	66.2
Wilmington Ave	103rd St	Santa Ana Blvd	988	16	28	21	91	899	6	59.3	3	29.6	25	40	25	40	25	40	59.6	59.5	64.1	64.9
Wilmington Ave	108th St	111th St	1095	16	28	21	91	996	6	65.7	3	32.8	25	40	25	40	25	40	60.1	59.9	64.6	65.3

Future Without Project

ROAD SEGMENT	from:	to:	TOT. # VEH.	EQUIVALENT LANE DISTANCE D1	D2	Eq. Dis.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	50 ft ROW CNEL (dBA)
97th Street	Grape St	Alameda St	372	6	18	10	91	339	6	22.3	6	22.3	25	40	25	40	25	40	55.4	55.2	62.9	63.4
97th Street	Grape St	Wilmington Ave	489	6	18	10	91	445	6	29.3	6	29.3	25	40	25	40	25	40	56.6	56.4	64.1	64.5
103rd St	Grape St	Alameda St	788	16	28	21	91	717	6	47.3	6	47.3	25	40	25	40	25	40	58.7	58.5	66.1	65.9
103rd St	Grape St	Wilmington Ave	916	16	28	21	91	834	6	55	6	55	25	40	25	40	25	40	59.3	59.2	66.8	66.6
Century Blvd (ext)	Grape St	Alameda St	36	13	25	18	95	34.2	2.5	0.9	2.5	0.9	25	40	25	40	25	40	45.4	41.3	48.9	49.7
Century Blvd	Compton	Grape	505	13	25	18	91	460	6	30.3	3	15.2	25	40	25	40	25	40	56.7	56.6	61.2	62.2
Tweedy Blvd	Alameda St	Long Beach Blvd	1558	16	52	29	91	1418	6	93.5	3	46.7	25	40	25	40	25	40	61.6	61.5	66.1	66.4
Wilmington Ave	103rd St	Santa Ana Blvd	1031	16	28	21	91	938	6	61.8	3	30.9	25	40	25	40	25	40	59.8	59.7	64.3	65.1
Wilmington Ave	108th St	111th St	1142	16	28	21	91	1039	6	68.5	3	34.2	25	40	25	40	25	40	60.3	60.1	64.7	65.5

Future With Project

ROAD SEGMENT	from:	to:	TOT. # VEH.	EQUIVALENT LANE DISTANCE D1	D2	Eq. Dis.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	50 ft ROW CNEL (dBA)
97th Street	Grape St	Alameda St	398	6	18	10	91	362	6	23.9	6	23.9	25	40	25	40	25	40	55.7	55.5	63.2	63.7
97th Street	Grape St	Wilmington Ave	495	6	18	10	91	450	6	29.7	6	29.7	25	40	25	40	25	40	56.6	56.5	64.1	64.6
103rd St	Grape St	Alameda St	619	16	28	21	91	563	6	37.1	6	37.1	25	40	25	40	25	40	57.6	57.4	65.1	64.9
103rd St	Grape St	Wilmington Ave	880	16	28	21	91	800	6	52.8	6	52.8	25	40	25	40	25	40	59.1	59.0	66.6	66.4
Century Blvd (ext)	Grape St	Alameda St	699	13	25	18	95	664	2.5	17.5	2.5	17.5	25	40	25	40	25	40	58.3	54.2	61.8	62.6
Century Blvd	Compton	Grape	1214	13	25	18	91	1105	6	72.8	3	36.4	25	40	25	40	25	40	60.5	60.4	65.0	66.0
Tweedy Blvd	Alameda St	Long Beach Blvd	1864	16	52	29	91	1696	6	112	3	55.9	25	40	25	40	25	40	62.4	62.2	66.9	67.2
Wilmington Ave	103rd St	Santa Ana Blvd	1194	16	28	21	91	1087	6	71.6	3	35.8	25	40	25	40	25	40	60.5	60.3	64.9	65.7
Wilmington Ave	108th St	111th St	1367	16	28	21	91	1244	6	82	3	41	25	40	25	40	25	40	61.0	60.9	65.5	66.3

CNEL Noise Estimates for the Proposed Project - Based on PM Peak Hour

Existing

ROAD SEGMENT	from:	to:	TOT. # VEH.	EQUIVALENT LANE DISTANCE D1	D2	Eq. Dis.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	50 ft ROW CNEL (dBA)
97th Street	Grape St	Alameda St	298	6	18	10	91	271	6	17.9	6	17.9	25	40	25	40	25	40	54.4	54.3	61.9	62.4
97th Street	Grape St	Wilmington Ave	342	6	18	10	91	311	6	20.5	6	20.5	25	40	25	40	25	40	55.0	54.9	62.5	63.0
103rd St	Grape St	Alameda St	733	16	28	21	91	667	6	44	6	44	25	40	25	40	25	40	58.3	58.2	65.8	65.6
103rd St	Grape St	Wilmington Ave	788	16	28	21	91	717	6	47.3	6	47.3	25	40	25	40	25	40	58.7	58.5	66.1	65.9
Century Blvd (ext)	Grape St	Alameda St	46	13	25	18	95	43.2	2.5	1.14	2.5	1.14	25	40	25	40	25	40	46.5	42.3	50.0	50.7
Century Blvd	Compton	Grape	467	13	25	18	91	425	6	28	3	14	25	40	25	40	25	40	56.4	56.2	60.9	61.8
Tweedy Blvd	Alameda St	Long Beach Blvd	1262	16	52	29	91	1148	6	75.7	3	37.9	25	40	25	40	25	40	60.7	60.5	65.2	65.5
Wilmington Ave	103rd St	Santa Ana Blvd	1076	16	28	21	91	979	6	64.5	3	32.3	25	40	25	40	25	40	60.0	59.9	64.5	65.3
Wilmington Ave	108th St	111th St	1120	16	28	21	91	1019	6	67.2	3	33.6	25	40	25	40	25	40	60.2	60.0	64.7	65.4

Future Without Project

ROAD SEGMENT	from:	to:	TOT. # VEH.	EQUIVALENT LANE DISTANCE D1	D2	Eq. Dis.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	50 ft ROW CNEL (dBA)
97th Street	Grape St	Alameda St	311	6	18	10	91	283	6	18.6	6	18.6	25	40	25	40	25	40	54.6	54.5	62.1	62.6
97th Street	Grape St	Wilmington Ave	357	6	18	10	91	325	6	21.4	6	21.4	25	40	25	40	25	40	55.2	55.1	62.7	63.2
103rd St	Grape St	Alameda St	774	16	28	21	91	704	6	46.4	6	46.4	25	40	25	40	25	40	58.6	58.4	66.1	65.8
103rd St	Grape St	Wilmington Ave	841	16	28	21	91	765	6	50.4	6	50.4	25	40	25	40	25	40	58.9	58.8	66.4	66.2
Century Blvd (ext)	Grape St	Alameda St	47	13	25	18	95	44.7	2.5	1.18	2.5	1.18	25	40	25	40	25	40	46.6	42.5	50.1	50.8
Century Blvd	Compton	Grape	487	13	25	18	91	443	6	29.2	3	14.6	25	40	25	40	25	40	56.6	56.4	61.0	62.0
Tweedy Blvd	Alameda St	Long Beach Blvd	1281	16	52	29	91	1166	6	76.9	3	38.4	25	40	25	40	25	40	60.8	60.6	65.2	65.6
Wilmington Ave	103rd St	Santa Ana Blvd	1082	16	28	21	91	984	6	64.9	3	32.4	25	40	25	40	25	40	60.0	59.9	64.5	65.3
Wilmington Ave	108th St	111th St	1168	16	28	21	91	1062	6	70.1	3	35	25	40	25	40	25	40	60.4	60.2	64.8	65.6

Future With Project

ROAD SEGMENT	from:	to:	TOT. # VEH.	EQUIVALENT LANE DISTANCE D1	D2	Eq. Dis.	VEHICLE TYPE % Auto %	Auto	MT %	MT	HT %	HT	VEHICLE SPEED Auto	k/h	MT	k/h	HT	k/h	NOISE LEVEL (dBA) Auto	MT	HT	50 ft ROW CNEL (dBA)
97th Street	Grape St	Alameda St	346	6	18	10	91	315	6	20.8	6	20.8	25	40	25	40	25	40	55.1	54.9	62.6	63.0
97th Street	Grape St	Wilmington Ave	365	6	18	10	91	332	6	21.9	6	21.9	25	40	25	40	25	40	55.3	55.2	62.8	63.3
103rd St	Grape St	Alameda St	564	16	28	21	91	513	6	33.8	6	33.8	25	40	25	40	25	40	57.2	57.0	64.7	64.5
103rd St	Grape St	Wilmington Ave	821	16	28	21	91	747	6	49.3	6	49.3	25	40	25	40	25	40	58.8	58.7	66.3	66.1
Century Blvd (ext)	Grape St	Alameda St	764	13	25	18	95	726	2.5	19.1	2.5	19.1	25	40	25	40	25	40	58.7	54.6	62.2	63.0
Century Blvd	Compton	Grape	1239	13	25	18	91	1127	6	74.3	3	37.2	25	40	25	40	25	40	60.6	60.5	65.1	66.1
Tweedy Blvd	Alameda St	Long Beach Blvd	1599	16	52	29	91	1455	6	95.9	3	48	25	40	25	40	25	40	61.7	61.6	66.2	66.5
Wilmington Ave	103rd St	Santa Ana Blvd	1591	16	28	21	91	1448	6	95.5	3	47.7	25	40	25	40	25	40	61.7	61.6	66.2	67.0
Wilmington Ave	108th St	111th St	1392	16	28	21	91	1266	6	83.5	3	41.7	25	40	25	40	25	40	61.1	61.0	65.6	66.4

Mobile Noise Summary

AM PEAK HOUR

ROAD SEGMENT			Existing	No Project	With Project	Project Impact	Cumulative Impact
	from:	to:	(dBa)	(dBa)	(dBa)	(dBa)	(dBa)
97th Street	Grape St	Alameda St	63.2	63.4	63.7	0.3	0.5
97th Street	Grape St	Wilmington Ave	64.4	64.5	64.6	0.1	0.2
103rd St	Grape St	Alameda St	65.7	65.9	64.9	*-1.0*	*-0.8*
103rd St	Grape St	Wilmington Ave	66.4	66.6	66.4	*-0.2*	*0.0*
Century Blvd (ext)	Grape St	Alameda St	49.6	49.7	62.6	**12.9**	**13.0**
Century Blvd	Compton	Grape	62.0	62.2	66.0	***3.8***	***4.0***
Tweedy Blvd	Alameda St	Long Beach Blvd	66.2	66.4	67.2	0.8	1.0
Wilmington Ave	103rd St	Santa Ana Blvd	64.9	65.1	65.7	0.6	0.8
Wilmington Ave	108th St	111th St	65.3	65.5	66.3	0.8	1.0

PM PEAK HOUR

ROAD SEGMENT			Existing	No Project	With Project	Project Impact	Cumulative Impact
	from:	to:	(dBa)	(dBa)	(dBa)	(dBa)	(dBa)
97th Street	Grape St	Alameda St	62.4	62.6	63.0	0.4	0.6
97th Street	Grape St	Wilmington Ave	63.0	63.2	63.3	0.1	0.3
103rd St	Grape St	Alameda St	65.6	65.8	64.5	*-1.3*	*-1.1*
103rd St	Grape St	Wilmington Ave	65.9	66.2	66.1	*-0.1*	*0.2*
Century Blvd (ext)	Grape St	Alameda St	50.7	50.8	63.0	**12.2**	**12.3**
Century Blvd	Compton	Grape	61.8	62.0	66.1	***4.1***	***4.3***
Tweedy Blvd	Alameda St	Long Beach Blvd	65.5	65.6	66.5	0.9	1.0
Wilmington Ave	103rd St	Santa Ana Blvd	65.3	65.3	67.0	*1.7*	*1.7*
Wilmington Ave	108th St	111th St	65.4	65.6	66.4	0.8	1.0