

**Appendix K:**  
**Noise Supporting Information**

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TABLE Existing-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: Walters Road - Bella Vista Drive to Pintail Drive  
NOTES: Suisun Logistics - Existing

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1600      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.00

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	64.6	131.5	279.5

TABLE Existing-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: Walters Road - Pintail Drive to Montebello Drive  
NOTES: Suisun Logistics - Existing

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1500      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.72

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
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0.0	62.3	126.2	267.9

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TABLE Existing-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: Walters Road - Montebello Drive to Petersen Road  
NOTES: Suisun Logistics - Existing

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1600      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.00

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	64.6	131.5	279.5

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TABLE Existing-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Sunset Avenue to Emperor Drive  
NOTES: Suisun Logistics - Existing

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2900      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.40

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	103.9	219.1	469.7

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TABLE Existing-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Emperor Drive to Walters Road  
NOTES: Suisun Logistics - Existing

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2300      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.39

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	89.9	188.1	402.6

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TABLE Near-Term-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021

ROADWAY SEGMENT: Walters Road - Bella Vista Drive to Pintail Drive

NOTES: Suisun Logistics - Near-Term

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1800      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.51

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	69.2	141.9	302.2

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TABLE Near-Term-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: Walters Road - Pintail Drive to Montebello Drive  
NOTES: Suisun Logistics - Near-Term

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1700      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.26

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	67.0	136.8	291.0

TABLE Near-Term-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: Walters Road - Montebello Drive to Petersen Road  
NOTES: Suisun Logistics - Near-Term

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1900      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.75

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	71.5	147.0	313.2

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TABLE Near-Term-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Sunset Avenue to Emperor Drive  
NOTES: Suisun Logistics - Near-Term

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3300      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.96

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
56.5	112.8	238.5	511.7

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TABLE Near-Term-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Emperor Drive to Walters Road  
NOTES: Suisun Logistics - Near-Term

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2600      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.92

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	97.0	203.9	436.8

TABLE Near Term with Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021

ROADWAY SEGMENT: Walters Road - Bella Vista Drive to Pintail Drive

NOTES: Suisun Logistics - Near Term with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1900      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY ---	NIGHT -----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.75

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	71.5	147.0	313.2

TABLE Near Term with Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021

ROADWAY SEGMENT: Walters Road - Pintail Drive to Montebello Drive

NOTES: Suisun Logistics - Near Term with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 1900      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY ---	NIGHT -----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.75

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	71.5	147.0	313.2

TABLE Near Term with Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021

ROADWAY SEGMENT: Walters Road - Montebello Drive to Petersen Road

NOTES: Suisun Logistics - Near Term with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2000      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.97

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	73.7	151.9	324.1

TABLE Near Term with Project-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Sunset Avenue to Emperor Drive  
NOTES: Suisun Logistics - Near Term with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3400      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

---

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.09

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
57.4	114.9	243.3	522.0

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TABLE Near Term with Project-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Emperor Drive to Walters Road  
NOTES: Suisun Logistics - Near Term with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2700      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

---

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.09

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	99.3	209.0	447.9

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TABLE Cumulative-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021

ROADWAY SEGMENT: Walters Road - Bella Vista Drive to Pintail Drive

NOTES: Suisun Logistics - Cumulative

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2500      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

---

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.94

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	84.3	175.7	375.8

TABLE Cumulative-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: Walters Road - Pintail Drive to Montebello Drive  
NOTES: Suisun Logistics - Cumulative

\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2200      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.38

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	78.0	161.7	345.2

TABLE Cumulative-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: Walters Road - Montebello Drive to Petersen Road  
NOTES: Suisun Logistics - Cumulative

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2400      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.76

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	82.2	171.1	365.7

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TABLE Cumulative-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Sunset Avenue to Emperor Drive  
NOTES: Suisun Logistics - Cumulative

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3900      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

---

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.68

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
62.0	125.5	266.4	571.9

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TABLE Cumulative-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Emperor Drive to Walters Road  
NOTES: Suisun Logistics - Cumulative

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3500      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
82.40	9.60
M-TRUCKS	
1.50	1.50
H-TRUCKS	
2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

---

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.21

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
58.4	117.1	248.0	532.2

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TABLE Cumulative with Project-01  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021

ROADWAY SEGMENT: Walters Road - Bella Vista Drive to Pintail Drive

NOTES: Suisun Logistics - Cumulative with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2600      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY ---	NIGHT -----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.11

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	86.4	180.3	385.7

TABLE Cumulative with Project-02  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021

ROADWAY SEGMENT: Walters Road - Pintail Drive to Montebello Drive

NOTES: Suisun Logistics - Cumulative with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2400      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY ---	NIGHT -----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

---

\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.76

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	82.2	171.1	365.7



TABLE Cumulative with Project-03  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021

ROADWAY SEGMENT: Walters Road - Montebello Drive to Petersen Road

NOTES: Suisun Logistics - Cumulative with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 2600      SPEED (MPH): 45      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY ---	NIGHT -----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.11

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn -----	65 Ldn -----	60 Ldn -----	55 Ldn -----
0.0	86.4	180.3	385.7

TABLE Cumulative with Project-04  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Sunset Avenue to Emperor Drive  
NOTES: Suisun Logistics - Cumulative with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 4000      SPEED (MPH): 50      GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES	
	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.79

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
62.9	127.5	270.8	581.6

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TABLE Cumulative with Project-05  
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 09/10/2021  
ROADWAY SEGMENT: SR-12 - Emperor Drive to Walters Road  
NOTES: Suisun Logistics - Cumulative with Project

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\* \* ASSUMPTIONS \* \*

AVERAGE DAILY TRAFFIC: 3600      SPEED (MPH): 50      GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	82.40	9.60
M-TRUCKS	1.50	1.50
H-TRUCKS	2.50	2.50

ACTIVE HALF-WIDTH (FT): 24      SITE CHARACTERISTICS: SOFT

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\* \* CALCULATED NOISE LEVELS \* \*

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.34

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
59.3	119.2	252.6	542.2

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### Loading/Unloading

Receptor: Closest Residence - northeast of Project

No.	Equipment Description	Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	Loading/Unloading	80	3	1	630	1	0	58.0	31.8	1499.718053	
2	Loading/Unloading	80	3	1	670	1	0	57.5	31.0	1246.828899	
3	Loading/Unloading	80	3	1	710	1	0	57.0	30.2	1047.746507	
4	Loading/Unloading	80	3	1	750	1	0	56.5	29.5	888.888889	
5	Loading/Unloading	80	3	1	790	1	0	56.0	28.8	760.5889189	
6	Loading/Unloading	80	3	1	830	1	0	55.6	28.2	655.8386252	
7											
8											
9											
10											
								Lmax[4]	58	Leq	38

Notes:

- [1] Percentage of time activity occurs each hour
- [2] Soft ground terrain between project site and receptor.
- [3] Shielding due to terrain or structures
- [4] Calculated Lmax is the Loudest value.

Receptor: Closest Residence - southeast of Project

No.	Equipment Description	Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	Loading/Unloading	80	5	1	875	1	0	55.1	29.7	932.9446064	
2	Loading/Unloading	80	5	1	885	1	0	55.0	29.6	901.6753669	
3	Loading/Unloading	80	5	1	895	1	0	54.9	29.4	871.7880495	
4	Loading/Unloading	80	5	1	905	1	0	54.8	29.3	843.2071485	
5	Loading/Unloading	80	5	1	915	1	0	54.8	29.1	815.8620553	
6	Loading/Unloading	80	5	1	925	1	0	54.7	29.0	789.6866918	
7											
8											
9											
10											
								Lmax[4]	55	Leq	37

Notes:

- [1] Percentage of time activity occurs each hour
- [2] Soft ground terrain between project site and receptor.
- [3] Shielding due to terrain or structures
- [4] Calculated Lmax is the Loudest value.

### Mechanical Equipment Noise Calculation

Receptor: Closest Residence - northeast of Project

Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements											
No.	Equipment Description	Reference (dBA) 25 ft	Quantity	Usage factor <sup>[1]</sup>	Distance to Receptor	Ground Effect <sup>[2]</sup>	Shielding (dBA) <sup>[3]</sup>	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	Commercial grade mechanical ventilation equipment	60	1	100	510	0.5	0	33.8	27.3	532.0158626	
2	Commercial grade mechanical ventilation equipment	60	1	100	540	0.5	0	33.3	26.6	461.1748574	
3	Commercial grade mechanical ventilation equipment	60	1	100	570	0.5	0	32.8	26.1	402.868102	
4	Commercial grade mechanical ventilation equipment	60	1	100	610	0.5	0	32.3	25.3	340.0364192	
5	Commercial grade mechanical ventilation equipment	60	1	100	640	0.5	0	31.8	24.8	301.5782986	
6											
7											
8											
9											
10											
								Lmax <sup>[4]</sup>	34	Leq	33

Notes:

- [1] Percentage of time activity occurs each hour
- [2] Soft ground terrain between project site and receptor.
- [3] Shielding due to terrain or structures
- [4] Calculated Lmax is the Loudest value.

Receptor: Closest Residence - southeast of Project

Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements											
No.	Equipment Description	Reference (dBA) 25 ft	Quantity	Usage factor <sup>[1]</sup>	Distance to Receptor	Ground Effect <sup>[2]</sup>	Shielding (dBA) <sup>[3]</sup>	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	Commercial grade mechanical ventilation equipment	60	1	100	285	0.5	0	38.9	33.6	2278.966135	
2	Commercial grade mechanical ventilation equipment	60	1	100	425	0.5	0	35.4	29.2	839.223616	
3	Commercial grade mechanical ventilation equipment	60	1	100	465	0.5	0	34.6	28.3	670.2203951	
4	Commercial grade mechanical ventilation equipment	60	1	100	505	0.5	0	33.9	27.4	545.2825207	
5	Commercial grade mechanical ventilation equipment	60	1	100	545	0.5	0	33.2	26.5	450.6701213	
6											
7											
8											
9											
10											
								Lmax <sup>[4]</sup>	39	Leq	37

Notes:

- [1] Percentage of time activity occurs each hour
- [2] Soft ground terrain between project site and receptor.
- [3] Shielding due to terrain or structures
- [4] Calculated Lmax is the Loudest value.

### Parking Lot activity

Receptor: Closest Residence - northeast of Project

No.	Equipment Description	Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	parking lot activity	70	10	1	435	1	5	46.2	26.8	480.2222101	
2	parking lot activity	70	10	1	465	1	5	45.6	25.9	393.1435495	
3	parking lot activity	70	10	1	495	1	5	45.1	25.1	325.907546	
4	parking lot activity	70	10	1	525	1	5	44.6	24.4	273.169434	
5	parking lot activity	70	10	1	555	1	5	44.1	23.6	231.223017	
6											
7											
8											
9											
10											
								Lmax[4]	46	Leq	32

Notes:

- [1] Percentage of time activity occurs each hour
- [2] Soft ground terrain between project site and receptor.
- [3] Shielding due existing 6-foot high soundwall along residential property line
- [4] Calculated Lmax is the Loudest value.

Receptor: Closest Residence - southeast of Project

No.	Equipment Description	Reference (dBA) 50 ft	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA)		Energy	
		Lmax						Lmax	Leq		
1	parking lot activity	70	20	1	260	1	5	50.7	36.5	4498.00532	
2	parking lot activity	70	10	1	300	1	5	49.4	31.7	1464.017435	
3	parking lot activity	70	10	1	340	1	5	48.3	30.0	1005.711143	
4	parking lot activity	70	10	1	380	1	5	47.4	28.6	720.3759796	
5	parking lot activity	70	10	1	420	1	5	46.5	27.3	533.5340508	
6	parking lot activity	70	10	1	460	1	5	45.7	26.1	406.1032994	
7											
8											
9											
10											
								Lmax[4]	51	Leq	39

Notes:

- [1] Percentage of time activity occurs each hour
- [2] Soft ground terrain between project site and receptor.
- [3] Shielding due existing 6-foot high soundwall along residential property line
- [4] Calculated Lmax is the Loudest value.