

APPENDIX C

AIR QUALITY MODELING OUTPUTS

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

	<u>ROG</u>	<u>NOx</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2010	0.90	7.46	13.20	0.37	13.58	2.76	0.34	3.10	707.50
Mass Grading 07/01/2010-12/31/2010	0.90	7.46	13.20	0.37	13.58	2.76	0.34	3.10	707.50
Mass Grading Dust	0.00	0.00	13.20	0.00	13.20	2.76	0.00	2.76	0.00
Mass Grading Off Road Diesel	0.89	7.45	0.00	0.37	0.37	0.00	0.34	0.34	683.88
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	23.63
2011	6.09	48.88	0.58	2.13	2.71	0.20	1.93	2.13	14,484.35
Building 01/01/2011-06/30/2012	6.09	48.88	0.58	2.13	2.71	0.20	1.93	2.13	14,484.35
Building Off Road Diesel	0.98	5.68	0.00	0.41	0.41	0.00	0.38	0.38	587.41
Building Vendor Trips	3.14	39.90	0.28	1.54	1.82	0.09	1.41	1.51	7,712.93
Building Worker Trips	1.97	3.31	0.30	0.17	0.48	0.11	0.14	0.25	6,184.00

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2012	52.22	24.59	0.30	1.17	1.47	0.10	1.07	1.17	7,543.46
Asphalt 01/01/2012-06/30/2012	0.48	2.50	0.00	0.21	0.21	0.00	0.19	0.19	240.95
Paving Off-Gas	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.37	2.25	0.00	0.20	0.20	0.00	0.18	0.18	184.45
Paving On Road Diesel	0.02	0.24	0.00	0.01	0.01	0.00	0.01	0.01	39.87
Paving Worker Trips	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	16.63
Building 01/01/2011-06/30/2012	2.79	22.06	0.29	0.96	1.26	0.10	0.87	0.98	7,244.05
Building Off Road Diesel	0.45	2.66	0.00	0.18	0.18	0.00	0.17	0.17	293.71
Building Vendor Trips	1.45	17.91	0.14	0.69	0.83	0.05	0.63	0.68	3,857.00
Building Worker Trips	0.89	1.49	0.15	0.09	0.24	0.05	0.07	0.12	3,093.35
Coating 01/01/2012-06/30/2012	48.95	0.03	0.00	0.00	0.00	0.00	0.00	0.00	58.46
Architectural Coating	48.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	58.46

Phase Assumptions

Phase: Mass Grading 7/1/2010 - 12/31/2010 - Default Fine Site Grading Description

Total Acres Disturbed: 288.1

Maximum Daily Acreage Disturbed: 10

Fugitive Dust Level of Detail: Default

 20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

2 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

2 Scrapers (313 hp) operating at a 0.72 load factor for 8 hours per day

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- 4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 1/1/2012 - 6/30/2012 - Default Paving Description
 Acres to be Paved: 67.32

- Off-Road Equipment:
- 2 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
 - 4 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
 - 4 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 1/1/2011 - 6/30/2012 - Default Building Construction Description
 Off-Road Equipment:

- 2 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 6 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
- 2 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 6 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 1/1/2012 - 6/30/2012 - Default Architectural Coating Description
 Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130
 Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130
 Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
 Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>ROG</u>	<u>NOx</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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2010	0.90	7.46	6.84	0.37	7.21	1.43	0.34	1.77	707.50
Mass Grading 07/01/2010-12/31/2010	0.90	7.46	6.84	0.37	7.21	1.43	0.34	1.77	707.50
Mass Grading Dust	0.00	0.00	6.84	0.00	6.84	1.43	0.00	1.43	0.00
Mass Grading Off Road Diesel	0.89	7.45	0.00	0.37	0.37	0.00	0.34	0.34	683.88
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	23.63
2011	6.09	48.88	0.58	2.13	2.71	0.20	1.93	2.13	14,484.35
Building 01/01/2011-06/30/2012	6.09	48.88	0.58	2.13	2.71	0.20	1.93	2.13	14,484.35
Building Off Road Diesel	0.98	5.68	0.00	0.41	0.41	0.00	0.38	0.38	587.41
Building Vendor Trips	3.14	39.90	0.28	1.54	1.82	0.09	1.41	1.51	7,712.93
Building Worker Trips	1.97	3.31	0.30	0.17	0.48	0.11	0.14	0.25	6,184.00

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2012	47.33	24.59	0.30	1.17	1.47	0.10	1.07	1.17	7,543.46
Asphalt 01/01/2012-06/30/2012	0.48	2.50	0.00	0.21	0.21	0.00	0.19	0.19	240.95
Paving Off-Gas	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.37	2.25	0.00	0.20	0.20	0.00	0.18	0.18	184.45
Paving On Road Diesel	0.02	0.24	0.00	0.01	0.01	0.00	0.01	0.01	39.87
Paving Worker Trips	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	16.63
Building 01/01/2011-06/30/2012	2.79	22.06	0.29	0.96	1.26	0.10	0.87	0.98	7,244.05
Building Off Road Diesel	0.45	2.66	0.00	0.18	0.18	0.00	0.17	0.17	293.71
Building Vendor Trips	1.45	17.91	0.14	0.69	0.83	0.05	0.63	0.68	3,857.00
Building Worker Trips	0.89	1.49	0.15	0.09	0.24	0.05	0.07	0.12	3,093.35
Coating 01/01/2012-06/30/2012	44.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	58.46
Architectural Coating	44.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	58.46

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 7/1/2010 - 12/31/2010 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Architectural Coating 1/1/2012 - 6/30/2012 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: P:\Projects - All Employees\D50000+\51413.00 Austin Road\Staff Folders\Chris\AQ\Phase 2 Construction.urb924

Project Name: Austin Road - Phase 2 Construction

Project Location: San Joaquin Valley APCD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2012 TOTALS (tons/year unmitigated)	0.71	4.85	6.52	0.26	6.78	1.36	0.24	1.60	874.14
2012 TOTALS (tons/year mitigated)	0.71	4.85	3.39	0.26	3.65	0.71	0.24	0.95	874.14
Percent Reduction	0.00	0.00	48.05	0.00	46.19	47.95	0.00	40.79	0.00
2013 TOTALS (tons/year unmitigated)	13.97	6.30	0.06	0.40	0.46	0.02	0.37	0.39	1,763.54
2013 TOTALS (tons/year mitigated)	12.69	6.30	0.06	0.40	0.46	0.02	0.37	0.39	1,763.54
Percent Reduction	9.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>ROG</u>	<u>NOx</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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Phase Assumptions

Phase: Mass Grading 7/1/2012 - 9/30/2012 - Default Fine Site Grading Description

Total Acres Disturbed: 82.7

Maximum Daily Acreage Disturbed: 10

Fugitive Dust Level of Detail: Default

20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

2 Graders (174 hp) operating at a 0.61 load factor for 6 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 6 hours per day

2 Scrapers (313 hp) operating at a 0.72 load factor for 8 hours per day

4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 7/1/2013 - 9/30/2013 - Default Paving Description

Acres to be Paved: 13.63

Off-Road Equipment:

2 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day

4 Paving Equipment (104 hp) operating at a 0.53 load factor for 6 hours per day

4 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 10/1/2012 - 9/30/2013 - Default Building Construction Description

Off-Road Equipment:

2 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day

6 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day

2 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day

6 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day

2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

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Phase: Architectural Coating 7/1/2013 - 9/30/2013 - Default Architectural Coating Description

Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130

Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Mitigated

	<u>ROG</u>	<u>NOx</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2012	0.71	4.85	3.39	0.26	3.65	0.71	0.24	0.95	874.14
Mass Grading 07/01/2012-09/30/2012	0.35	2.90	3.37	0.14	3.51	0.70	0.13	0.83	317.62
Mass Grading Dust	0.00	0.00	3.37	0.00	3.37	0.70	0.00	0.70	0.00
Mass Grading Off Road Diesel	0.35	2.90	0.00	0.14	0.14	0.00	0.13	0.13	305.97
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	11.64
Building 10/01/2012-09/30/2013	0.35	1.94	0.02	0.12	0.14	0.01	0.11	0.12	556.53
Building Off Road Diesel	0.23	1.35	0.00	0.09	0.09	0.00	0.09	0.09	149.11
Building Vendor Trips	0.04	0.44	0.00	0.02	0.02	0.00	0.02	0.02	101.22
Building Worker Trips	0.09	0.15	0.01	0.01	0.02	0.01	0.01	0.01	306.19

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2013	12.69	6.30	0.06	0.40	0.46	0.02	0.37	0.39	1,763.54
Building 10/01/2012-09/30/2013	0.96	5.27	0.06	0.32	0.37	0.02	0.29	0.31	1,644.73
Building Off Road Diesel	0.62	3.71	0.00	0.25	0.25	0.00	0.23	0.23	440.56
Building Vendor Trips	0.10	1.17	0.01	0.05	0.06	0.00	0.04	0.05	299.12
Building Worker Trips	0.23	0.39	0.04	0.03	0.07	0.02	0.02	0.04	905.05
Asphalt 07/01/2013-09/30/2013	0.18	1.02	0.00	0.09	0.09	0.00	0.08	0.08	100.56
Paving Off-Gas	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.16	0.97	0.00	0.08	0.08	0.00	0.08	0.08	83.98
Paving On Road Diesel	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	8.13
Paving Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.45
Coating 07/01/2013-09/30/2013	11.55	0.01	0.00	0.00	0.00	0.00	0.00	0.00	18.25
Architectural Coating	11.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	18.25

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 7/1/2012 - 9/30/2012 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Architectural Coating 7/1/2013 - 9/30/2013 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: P:\Projects - All Employees\D50000+\51413.00 Austin Road\Staff Folders\Chris\AQ\Phase 3 and 4 Construction.urb924

Project Name: Austin Road - Phases 3 and 4 Construction

Project Location: San Joaquin Valley APCD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

CONSTRUCTION EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2013 TOTALS (tons/year unmitigated)	0.38	3.07	1.75	0.00	6.60	0.15	6.75	1.38	0.14	1.51	353.77
2013 TOTALS (tons/year mitigated)	0.38	3.07	1.75	0.00	3.42	0.15	3.57	0.71	0.14	0.85	353.77
Percent Reduction	0.00	0.00	0.00	0.00	48.19	0.00	47.14	48.18	0.00	43.88	0.00
2014 TOTALS (tons/year unmitigated)	3.73	11.62	28.34	0.03	10.96	0.64	11.59	2.31	0.58	2.89	4,390.03
2014 TOTALS (tons/year mitigated)	2.11	11.62	28.34	0.03	5.75	0.64	6.39	1.23	0.58	1.80	4,390.03
Percent Reduction	43.36	0.00	0.00	0.00	47.50	0.00	44.89	47.01	0.00	37.63	0.00
2015 TOTALS (tons/year unmitigated)	9.30	12.96	41.76	0.06	0.27	0.85	1.12	0.10	0.77	0.87	6,746.56
2015 TOTALS (tons/year mitigated)	3.77	12.96	41.76	0.06	0.27	0.85	1.12	0.10	0.77	0.87	6,746.56
Percent Reduction	59.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2016 TOTALS (tons/year unmitigated)	9.08	11.82	38.62	0.06	0.27	0.77	1.04	0.10	0.70	0.79	6,747.59

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2016 TOTALS (tons/year mitigated)	3.54	11.82	38.62	0.06	0.27	0.77	1.04	0.10	0.70	0.79	6,747.59
Percent Reduction	60.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2017 TOTALS (tons/year unmitigated)	8.83	10.74	35.64	0.06	0.27	0.70	0.97	0.10	0.63	0.73	6,722.48
2017 TOTALS (tons/year mitigated)	3.32	10.74	35.64	0.06	0.27	0.70	0.97	0.10	0.63	0.73	6,722.48
Percent Reduction	62.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2018 TOTALS (tons/year unmitigated)	8.69	9.84	33.26	0.06	0.27	0.64	0.91	0.10	0.58	0.67	6,748.81
2018 TOTALS (tons/year mitigated)	3.15	9.84	33.26	0.06	0.27	0.64	0.91	0.10	0.58	0.67	6,748.81
Percent Reduction	63.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019 TOTALS (tons/year unmitigated)	8.52	9.00	31.01	0.06	0.27	0.58	0.85	0.10	0.52	0.62	6,749.06
2019 TOTALS (tons/year mitigated)	2.99	9.00	31.01	0.06	0.27	0.58	0.85	0.10	0.52	0.62	6,749.06
Percent Reduction	64.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

ROG NOx CO SO2 PM10 Dust PM10 Exhaust PM10 PM2.5 Dust PM2.5 Exhaust PM2.5 CO2

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2019	8.52	9.00	31.01	0.06	0.27	0.58	0.85	0.10	0.52	0.62	6,749.06
Asphalt 10/01/2014-12/31/2019	0.51	2.98	2.71	0.00	0.00	0.23	0.23	0.00	0.21	0.21	415.75
Paving Off-Gas	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.48	2.94	2.53	0.00	0.00	0.23	0.23	0.00	0.21	0.21	370.31
Paving On Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.99
Paving Worker Trips	0.00	0.01	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.45
Building 06/01/2014-12/31/2019	1.33	6.02	28.24	0.06	0.27	0.35	0.62	0.10	0.31	0.41	6,320.60
Building Off Road Diesel	0.49	2.97	3.17	0.00	0.00	0.15	0.15	0.00	0.14	0.14	589.67
Building Vendor Trips	0.21	1.94	2.38	0.01	0.04	0.08	0.12	0.01	0.07	0.09	1,050.28
Building Worker Trips	0.63	1.10	22.70	0.05	0.23	0.12	0.35	0.08	0.10	0.18	4,680.65
Coating 10/01/2014-12/31/2019	6.68	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.71
Architectural Coating	6.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.71

Phase Assumptions

Phase: Mass Grading 10/1/2013 - 5/31/2014 - Default Fine Site Grading Description

Total Acres Disturbed: 413

Maximum Daily Acreage Disturbed: 10

Fugitive Dust Level of Detail: Default

 20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

2 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

2 Scrapers (313 hp) operating at a 0.72 load factor for 8 hours per day

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- 4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 10/1/2014 - 12/31/2019 - Default Paving Description
 Acres to be Paved: 105.42

- Off-Road Equipment:
- 2 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
 - 4 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
 - 4 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 6/1/2014 - 12/31/2019 - Default Building Construction Description
 Off-Road Equipment:

- 2 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 6 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
- 2 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 6 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 10/1/2014 - 12/31/2019 - Default Architectural Coating Description
 Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130
 Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130
 Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
 Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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2019	2.99	9.00	31.01	0.06	0.27	0.58	0.85	0.10	0.52	0.62	6,749.06
Asphalt 10/01/2014-12/31/2019	0.51	2.98	2.71	0.00	0.00	0.23	0.23	0.00	0.21	0.21	415.75
Paving Off-Gas	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.48	2.94	2.53	0.00	0.00	0.23	0.23	0.00	0.21	0.21	370.31
Paving On Road Diesel	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.99
Paving Worker Trips	0.00	0.01	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.45
Building 06/01/2014-12/31/2019	1.33	6.02	28.24	0.06	0.27	0.35	0.62	0.10	0.31	0.41	6,320.60
Building Off Road Diesel	0.49	2.97	3.17	0.00	0.00	0.15	0.15	0.00	0.14	0.14	589.67
Building Vendor Trips	0.21	1.94	2.38	0.01	0.04	0.08	0.12	0.01	0.07	0.09	1,050.28
Building Worker Trips	0.63	1.10	22.70	0.05	0.23	0.12	0.35	0.08	0.10	0.18	4,680.65
Coating 10/01/2014-12/31/2019	1.15	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.71
Architectural Coating	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.71

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 10/1/2013 - 5/31/2014 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Architectural Coating 10/1/2014 - 12/31/2019 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

Construction Unmitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

	<u>ROG</u>	<u>NOx</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
2020	9.69	9.02	19.67	0.48	20.15	4.12	0.44	4.55	3,145.69
Mass Grading 01/01/2020-09/30/2020	0.73	4.91	19.60	0.21	19.81	4.09	0.19	4.29	1,050.62
Mass Grading Dust	0.00	0.00	19.60	0.00	19.60	4.09	0.00	4.09	0.00
Mass Grading Off Road Diesel	0.73	4.91	0.00	0.21	0.21	0.00	0.19	0.19	1,015.45
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	35.17
Asphalt 03/31/2020-12/31/2022	0.37	2.12	0.00	0.16	0.17	0.00	0.15	0.15	320.58
Paving Off-Gas	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.34	2.09	0.00	0.16	0.16	0.00	0.15	0.15	280.93
Paving On Road Diesel	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	14.28
Paving Worker Trips	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	25.38
Coating 03/31/2020-12/31/2022	8.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.51
Architectural Coating	8.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.51
Building 10/01/2020-12/31/2022	0.35	1.98	0.07	0.10	0.17	0.02	0.09	0.12	1,758.98
Building Off Road Diesel	0.11	0.69	0.00	0.03	0.03	0.00	0.03	0.03	149.11
Building Vendor Trips	0.12	1.08	0.02	0.05	0.07	0.01	0.04	0.05	637.80
Building Worker Trips	0.12	0.21	0.05	0.03	0.07	0.02	0.02	0.04	972.06

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2022	12.37	8.90	0.28	0.58	0.86	0.10	0.52	0.62	7,371.36
Asphalt 03/31/2020-12/31/2022	0.49	2.77	0.00	0.22	0.22	0.00	0.20	0.20	420.96
Paving Off-Gas	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.44	2.74	0.00	0.21	0.21	0.00	0.20	0.20	368.89
Paving On Road Diesel	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	18.75
Paving Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.32
Building 10/01/2020-12/31/2022	1.07	6.12	0.28	0.36	0.64	0.10	0.32	0.42	6,930.03
Building Off Road Diesel	0.44	2.73	0.00	0.13	0.13	0.00	0.12	0.12	587.41
Building Vendor Trips	0.34	2.86	0.09	0.13	0.22	0.03	0.12	0.15	2,513.08
Building Worker Trips	0.28	0.53	0.19	0.11	0.29	0.07	0.09	0.15	3,829.54
Coating 03/31/2020-12/31/2022	10.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.37
Architectural Coating	10.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.37

Phase Assumptions

Phase: Mass Grading 1/1/2020 - 9/30/2020 - Default Fine Site Grading Description

Total Acres Disturbed: 347.47

Maximum Daily Acreage Disturbed: 10

Fugitive Dust Level of Detail: Default

 20 lbs per acre-day

On Road Truck Travel (VMT): 0

Off-Road Equipment:

2 Excavators (168 hp) operating at a 0.57 load factor for 8 hours per day

2 Graders (174 hp) operating at a 0.61 load factor for 8 hours per day

2 Rubber Tired Dozers (357 hp) operating at a 0.59 load factor for 8 hours per day

2 Scrapers (313 hp) operating at a 0.72 load factor for 8 hours per day

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- 4 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 2 Water Trucks (189 hp) operating at a 0.5 load factor for 8 hours per day

Phase: Paving 3/31/2020 - 12/31/2022 - Default Paving Description
 Acres to be Paved: 86.87

- Off-Road Equipment:
- 2 Pavers (100 hp) operating at a 0.62 load factor for 8 hours per day
 - 4 Paving Equipment (104 hp) operating at a 0.53 load factor for 8 hours per day
 - 4 Rollers (95 hp) operating at a 0.56 load factor for 6 hours per day

Phase: Building Construction 10/1/2020 - 12/31/2022 - Default Building Construction Description
 Off-Road Equipment:

- 2 Cranes (399 hp) operating at a 0.43 load factor for 7 hours per day
- 6 Forklifts (145 hp) operating at a 0.3 load factor for 8 hours per day
- 2 Generator Sets (49 hp) operating at a 0.74 load factor for 8 hours per day
- 6 Tractors/Loaders/Backhoes (108 hp) operating at a 0.55 load factor for 7 hours per day
- 2 Welders (45 hp) operating at a 0.45 load factor for 8 hours per day

Phase: Architectural Coating 3/31/2020 - 12/31/2022 - Default Architectural Coating Description
 Rule: Residential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130
 Rule: Residential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 130
 Rule: Nonresidential Interior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250
 Rule: Nonresidential Exterior Coatings begins 1/1/2005 ends 12/31/2040 specifies a VOC of 250

Construction Mitigated Detail Report:

CONSTRUCTION EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>ROG</u>	<u>NOx</u>	<u>PM10 Dust</u>	<u>PM10 Exhaust</u>	<u>PM10</u>	<u>PM2.5 Dust</u>	<u>PM2.5 Exhaust</u>	<u>PM2.5</u>	<u>CO2</u>
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2020	3.50	9.02	10.23	0.48	10.71	2.15	0.44	2.58	3,145.69
Mass Grading 01/01/2020-09/30/2020	0.73	4.91	10.16	0.21	10.37	2.12	0.19	2.31	1,050.62
Mass Grading Dust	0.00	0.00	10.15	0.00	10.15	2.12	0.00	2.12	0.00
Mass Grading Off Road Diesel	0.73	4.91	0.00	0.21	0.21	0.00	0.19	0.19	1,015.45
Mass Grading On Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading Worker Trips	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	35.17
Asphalt 03/31/2020-12/31/2022	0.37	2.12	0.00	0.16	0.17	0.00	0.15	0.15	320.58
Paving Off-Gas	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.34	2.09	0.00	0.16	0.16	0.00	0.15	0.15	280.93
Paving On Road Diesel	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	14.28
Paving Worker Trips	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	25.38
Coating 03/31/2020-12/31/2022	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.51
Architectural Coating	2.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.51
Building 10/01/2020-12/31/2022	0.35	1.98	0.07	0.10	0.17	0.02	0.09	0.12	1,758.98
Building Off Road Diesel	0.11	0.69	0.00	0.03	0.03	0.00	0.03	0.03	149.11
Building Vendor Trips	0.12	1.08	0.02	0.05	0.07	0.01	0.04	0.05	637.80
Building Worker Trips	0.12	0.21	0.05	0.03	0.07	0.02	0.02	0.04	972.06

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2022	5.09	8.90	0.28	0.58	0.86	0.10	0.52	0.62	7,371.36
Asphalt 03/31/2020-12/31/2022	0.49	2.77	0.00	0.22	0.22	0.00	0.20	0.20	420.96
Paving Off-Gas	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving Off Road Diesel	0.44	2.74	0.00	0.21	0.21	0.00	0.20	0.20	368.89
Paving On Road Diesel	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	18.75
Paving Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.32
Building 10/01/2020-12/31/2022	1.07	6.12	0.28	0.36	0.64	0.10	0.32	0.42	6,930.03
Building Off Road Diesel	0.44	2.73	0.00	0.13	0.13	0.00	0.12	0.12	587.41
Building Vendor Trips	0.34	2.86	0.09	0.13	0.22	0.03	0.12	0.15	2,513.08
Building Worker Trips	0.28	0.53	0.19	0.11	0.29	0.07	0.09	0.15	3,829.54
Coating 03/31/2020-12/31/2022	3.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.37
Architectural Coating	3.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coating Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.37

Construction Related Mitigation Measures

The following mitigation measures apply to Phase: Mass Grading 1/1/2020 - 9/30/2020 - Default Fine Site Grading Description

For Soil Stabilizing Measures, the Water exposed surfaces 3x daily watering mitigation reduces emissions by:

PM10: 61% PM25: 61%

The following mitigation measures apply to Phase: Architectural Coating 3/31/2020 - 12/31/2022 - Default Architectural Coating Description

For Residential Architectural Coating Measures, the Residential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Residential Architectural Coating Measures, the Residential Interior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Exterior: Use Low VOC Coatings mitigation reduces emissions by:

ROG: 10%

For Nonresidential Architectural Coating Measures, the Nonresidential Interior: Use Low VOC Coatings mitigation reduces emissions by:

Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: C:\Documents and Settings\21502\Desktop\Austin Road Area and Operation.urb924

Project Name: Austin Road - Area and Operation

Project Location: San Joaquin Valley APCD

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (tons/year, unmitigated)	54.57	14.78	16.85	16.22
TOTALS (tons/year, mitigated)	41.41	10.21	0.04	0.04
Percent Reduction	24.12	30.92	99.76	99.75

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (tons/year, unmitigated)	68.47	97.44	101.26	22.37

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>PM10</u>	<u>PM2.5</u>
TOTALS (tons/year, unmitigated)	123.04	112.22	118.11	38.59

Both Area and Operational Mitigation must be turned on to get a combined mitigated total.

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>PM10</u>	<u>PM2.5</u>
Natural Gas	0.95	12.62	0.02	0.02
Hearth	11.35	2.03	16.80	16.17
Landscape	1.83	0.13	0.03	0.03
Consumer Products	27.62			
Architectural Coatings	12.82			
TOTALS (tons/year, unmitigated)	54.57	14.78	16.85	16.22

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>PM10</u>	<u>PM2.5</u>
Natural Gas	0.76	10.10	0.02	0.02
Hearth	0.02	0.01	0.00	0.00
Landscape	1.47	0.10	0.02	0.02
Consumer Products	27.62			
Architectural Coatings	11.54			
TOTALS (tons/year, mitigated)	41.41	10.21	0.04	0.04

Area Source Changes to Defaults

Percentage of residences with wood stoves changed from 0% to 22%

Percentage of residences with natural gas fireplaces changed from 0% to 78%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	PM10	PM25
Single family housing	12.23	17.00	17.74	3.93
Apartments low rise	3.18	4.15	4.33	0.96
Condo/townhouse general	3.89	5.07	5.29	1.17
Regnl shop. center	19.36	30.65	31.78	7.01
Strip mall	2.91	4.04	4.18	0.92
Office park	1.73	2.59	2.70	0.60
Warehouse	8.93	9.15	9.48	2.09
General light industry	4.81	6.88	7.18	1.59
Mixed Use Shopping Center	9.60	15.43	16.00	3.53
Mixed Use Office Park	0.91	1.39	1.45	0.32
Mini-Storage	0.43	0.44	0.46	0.10
EXPO - Community Center	0.49	0.65	0.67	0.15
TOTALS (tons/year, unmitigated)	68.47	97.44	101.26	22.37

Operational Settings:

Does not include correction for passby trips

Includes the following double counting adjustment for internal trips:

Residential Trip % Reduction: 41.36 Nonresidential Trip % Reduction: 18.69

Analysis Year: 2020 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	300.00	5.61	dwelling units	2,358.00	13,233.15	113,139.44
Apartments low rise	20.00	3.90	dwelling units	828.00	3,228.94	27,606.43
Condo/townhouse general	149.90	3.90	dwelling units	1,012.00	3,946.48	33,741.19
Regnl shop. center		23.30	1000 sq ft	1,178.00	27,442.36	202,881.40
Strip mall		5.94	1000 sq ft	608.00	3,613.87	26,717.34
Office park		10.12	1000 sq ft	203.00	2,053.37	17,211.38
Warehouse		1.90	1000 sq ft	4,304.00	8,189.17	60,542.51
General light industry		6.73	1000 sq ft	807.00	5,433.20	45,774.69
Mixed Use Shopping Center		33.70	1000 sq ft	410.00	13,815.14	102,135.31
Mixed Use Office Park		12.12	1000 sq ft	91.00	1,103.24	9,247.37
Mini-Storage		1.94	1000 sq ft	203.00	394.50	2,916.53
EXPO - Community Center		4.75	1000 sq ft	122.00	579.33	4,295.43
					83,032.75	646,209.02

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	42.5	0.0	100.0	0.0
Light Truck < 3750 lbs	12.0	0.0	97.5	2.5
Light Truck 3751-5750 lbs	21.2	0.0	100.0	0.0
Med Truck 5751-8500 lbs	12.0	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	2.4	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.9	0.0	44.4	55.6

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Med-Heavy Truck 14,001-33,000 lbs	1.3	0.0	15.4	84.6
Heavy-Heavy Truck 33,001-60,000 lbs	2.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	3.9	41.0	59.0	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.0	0.0	90.0	10.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	10.8	7.3	7.5	9.5	7.4	7.4
Rural Trip Length (miles)	16.8	7.1	7.9	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			

% of Trips - Commercial (by land use)

Regnl shop. center	2.0	1.0	97.0
Strip mall	2.0	1.0	97.0
Office park	48.0	24.0	28.0
Warehouse	2.0	1.0	97.0
General light industry	50.0	25.0	25.0

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Mixed Use Shopping Center				2.0	1.0	97.0
Mixed Use Office Park				48.0	24.0	28.0
Mini-Storage				2.0	1.0	97.0
EXPO - Community Center				3.0	1.5	95.5