Appendix A

Emission Calculations

Modeling Outputs

Table A-1
Rough Grading Emissions
Montecito Ranch

GRADING OPERATIONS

Phase 1 Grading

Phase 1A Clear and Grub

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
D-8R Dozer	356	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	4	5.80	1.57	9.58	3.36	0.87	0.01	0.00	0.02	0.01	0.001733
Tub Grinder - Gasoline (Shredder)	8	36	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	4	0.13	0.05	0.12	0.05	0.01	0.00	0.00	0.00	0.00	0.00
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	4	2.19	0.59	3.62	1.27	0.33	0.00	0.00	0.01	0.00	0.00
High Side End Dumps (dump trucks)	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	4	8	4	37.36	12.91	34.49	12.83	3.29	0.07	0.03	0.07	0.03	0.01
											45.49	**15.12**	**47.82**	**17.51**	**4.50**	**0.09**	**0.03**	**0.10**	**0.04**	**0.01**

Phase 1C Mass Excavation

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
D-10R Dozer	356	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	25	5.80	1.57	9.58	3.36	0.87	0.07	0.02	0.12	0.04	0.01
D-9L Dozer	356	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	25	5.80	1.57	9.58	3.36	0.87	0.07	0.02	0.12	0.04	0.01
834B Rubber Tire Dozer	356	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	25	5.80	1.57	9.58	3.36	0.87	0.07	0.02	0.12	0.04	0.01
Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	3	8	25	28.02	9.68	25.87	9.62	2.47	0.35	0.12	0.32	0.12	0.03
Motor Grader	156.6	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	25	2.49	0.67	4.11	1.44	0.37	0.03	0.01	0.05	0.02	0.00
657E Scraper	266.76	66	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	8	8	25	38.92	10.55	64.27	22.54	5.81	0.49	0.13	0.80	0.28	0.07
											86.83	**25.63**	**123.00**	**43.68**	**11.25**	**1.09**	**0.32**	**1.54**	**0.55**	**0.14**

Phase 1D Remove & Recompact

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
High Side End Dumps (dump trucks)	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	4	8	65	37.36	12.91	34.49	12.83	3.29	1.21	0.42	1.12	0.42	0.11
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	65	2.19	0.59	3.62	1.27	0.33	0.07	0.02	0.12	0.04	0.01
Roller Compactors	99	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	4	8	65	6.29	1.71	10.39	3.64	0.94	0.20	0.06	0.34	0.12	0.03
											45.84	**15.21**	**48.50**	**17.74**	**4.56**	**1.49**	**0.49**	**1.58**	**0.58**	**0.15**

Phase 1F Finish Grade

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	3	8	18	28.02	9.68	25.87	9.62	2.47	0.25	0.09	0.23	0.09	0.02
Motor Grader	156.6	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	18	2.49	0.67	4.11	1.44	0.37	0.02	0.01	0.04	0.01	0.00
657E Scraper	266.76	66	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	8	8	18	38.92	10.55	64.27	22.54	5.81	0.35	0.09	0.58	0.20	0.05
											69.42	**20.91**	**94.25**	**33.60**	**8.65**	**0.62**	**0.19**	**0.85**	**0.30**	**0.08**
																3.29	1.03	4.06	1.46	0.38

Phase 2 Grading

Phase 2A Clear and Grub

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
D-8R Dozer	356	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	5	5.80	1.57	9.58	3.36	0.87	0.01	0.00	0.02	0.01	0.002166
Tub Grinder	8	36	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	5	0.13	0.05	0.12	0.05	0.01	0.00	0.00	0.00	0.00	0.00
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	5	2.19	0.59	3.62	1.27	0.33	0.01	0.00	0.01	0.00	0.00
High Side End Dumps (dump trucks)	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	4	8	5	37.36	12.91	34.49	12.83	3.29	0.09	0.03	0.09	0.03	0.01
											45.49	**15.12**	**47.82**	**17.51**	**4.50**	**0.11**	**0.04**	**0.12**	**0.04**	**0.01**

Phase 2B Mass Excavation

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
D-10R Dozer	356	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	15	5.80	1.57	9.58	3.36	0.87	0.04	0.01	0.07	0.03	0.01
D-9L Dozer	356	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	15	5.80	1.57	9.58	3.36	0.87	0.04	0.01	0.07	0.03	0.01
834B Rubber Tire Dozer	356	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	15	5.80	1.57	9.58	3.36	0.87	0.04	0.01	0.07	0.03	0.01
Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	3	8	15	28.02	9.68	25.87	9.62	2.47	0.21	0.07	0.19	0.07	0.02
Motor Grader	156.6	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	15	2.49	0.67	4.11	1.44	0.37	0.02	0.01	0.03	0.01	0.00
657E Scraper	266.76	66	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	8	8	15	38.92	10.55	64.27	22.54	5.81	0.29	0.08	0.48	0.17	0.04
											86.83	**25.63**	**123.00**	**43.68**	**11.25**	**0.65**	**0.19**	**0.92**	**0.33**	**0.08**

Table A-1
Rough Grading Emissions
Montecito Ranch

GRADING OPERATIONS

Phase 2C Remove & Recompact

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
High Side End Dumps (dump trucks)	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	4	8	69	37.36	12.91	34.49	12.83	3.29	1.29	0.45	1.19	0.44	0.11
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	69	2.19	0.59	3.62	1.27	0.33	0.08	0.02	0.12	0.04	0.01
Roller Compactors	99	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	4	8	69	6.29	1.71	10.39	3.64	0.94	0.22	0.06	0.36	0.13	0.03
											45.84	**15.21**	**48.50**	**17.74**	**4.56**	**1.58**	**0.52**	**1.67**	**0.61**	**0.16**

Phase 2E Finish Grade

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	3	8	35	28.02	9.68	25.87	9.62	2.47	0.49	0.17	0.45	0.17	0.04
Motor Grader	156.6	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	35	2.49	0.67	4.11	1.44	0.37	0.04	0.01	0.07	0.03	0.01
657E Scraper	266.76	66	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	8	8	35	38.92	10.55	64.27	22.54	5.81	0.68	0.18	1.12	0.39	0.10
											69.42	**20.91**	**94.25**	**33.60**	**8.65**	**1.21**	**0.37**	**1.65**	**0.59**	**0.15**

Phase 2F Erosion Control

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Landscaping Trucks	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	3	8	141	11.46	3.96	10.58	3.94	1.01	0.81	0.28	0.75	0.28	0.07
											11.46	**3.96**	**10.58**	**3.94**	**1.01**	**0.81**	**0.28**	**0.75**	**0.28**	**0.07**
																4.37	1.40	5.11	1.85	0.48

		Total days
Total diesel particulate emissions, tons	**0.85**	**377.00**

Table A-2
Underground Utilities and Surface Improvments
Phase 1
Montecito Ranch

UNDERGROUND UTILITIES AND SURFACE IMPROVEMENTS

Phase 1 Underground Utilities

Phase 1A Storm Drain

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
245 Excavator	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	88	0.90	0.24	1.48	0.52	0.13	0.04	0.01	0.07	0.02	0.01
235 Excavator with Compaction Wheel	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	88	0.90	0.24	1.48	0.52	0.13	0.04	0.01	0.07	0.02	0.01
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	88	2.19	0.59	3.62	1.27	0.33	0.10	0.03	0.16	0.06	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	88	9.34	3.23	8.62	3.21	0.82	0.41	0.14	0.38	0.14	0.04
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	88	3.82	1.32	3.53	1.31	0.34	0.17	0.06	0.16	0.06	0.01
											17.15	**5.63**	**18.74**	**6.83**	**1.76**	**0.75**	**0.25**	**0.82**	**0.30**	**0.08**

Phase 1B Sewer

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
245 Excavator	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	80	0.90	0.24	1.48	0.52	0.13	0.04	0.01	0.06	0.02	0.01
235 Excavator with Compaction Wheel	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	80	0.90	0.24	1.48	0.52	0.13	0.04	0.01	0.06	0.02	0.01
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	80	2.19	0.59	3.62	1.27	0.33	0.09	0.02	0.14	0.05	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	80	9.34	3.23	8.62	3.21	0.82	0.37	0.13	0.34	0.13	0.03
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	80	3.82	1.32	3.53	1.31	0.34	0.15	0.05	0.14	0.05	0.01
											17.15	**5.63**	**18.74**	**6.83**	**1.76**	**0.69**	**0.23**	**0.75**	**0.27**	**0.07**

Phase 1C Water

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
245 Excavator	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	60	0.90	0.24	1.48	0.52	0.13	0.03	0.01	0.04	0.02	0.00
235 Excavator with Compaction Wheel	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	60	0.90	0.24	1.48	0.52	0.13	0.03	0.01	0.04	0.02	0.00
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	60	2.19	0.59	3.62	1.27	0.33	0.07	0.02	0.11	0.04	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	60	9.34	3.23	8.62	3.21	0.82	0.28	0.10	0.26	0.10	0.02
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	60	3.82	1.32	3.53	1.31	0.34	0.11	0.04	0.11	0.04	0.01
											17.15	**5.63**	**18.74**	**6.83**	**1.76**	**0.51**	**0.17**	**0.56**	**0.20**	**0.05**

Phase 1D Dry Utilities

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
446B Backhoe	77	46.5	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	2	8	88	3.34	1.15	3.08	1.15	0.29	0.15	0.05	0.14	0.05	0.01
950 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	88	2.19	0.59	3.62	1.27	0.33	0.10	0.03	0.16	0.06	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	88	9.34	3.23	8.62	3.21	0.82	0.41	0.14	0.38	0.14	0.04
											14.87	**4.97**	**15.33**	**5.62**	**1.45**	**0.65**	**0.22**	**0.67**	**0.25**	**0.06**
											66.31	21.86	71.53	26.11	6.71	2.61	0.86	2.81	1.03	0.26

Phase 2 Surface Improvements

Phase 2A Balance/Fine Grade

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
14G Blade (Motor Grader)	156.6	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	2	8	75	4.98	1.35	8.22	2.88	0.74	0.19	0.05	0.31	0.11	0.03
623 Scraper	266.76	66	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	75	4.86	1.32	8.03	2.82	0.73	0.18	0.05	0.30	0.11	0.03
Vibratory Roller	99	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	75	1.57	0.43	2.60	0.91	0.23	0.06	0.02	0.10	0.03	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	75	9.34	3.23	8.62	3.21	0.82	0.35	0.12	0.32	0.12	0.03
											20.75	**6.32**	**27.47**	**9.82**	**2.53**	**0.78**	**0.24**	**1.03**	**0.37**	**0.09**

Phase 2B Curb & Gutter/Sidewalks/Driveways

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Curb Machine (Concrete Pavers)	130	62	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	82	2.23	0.60	3.68	1.29	0.33	0.09	0.02	0.15	0.05	0.01
Pavers	130	62	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	82	2.23	0.60	3.68	1.29	0.33	0.09	0.02	0.15	0.05	0.01
											4.45	**1.21**	**7.36**	**2.58**	**0.67**	**0.18**	**0.05**	**0.30**	**0.11**	**0.03**

Phase 2C Street Lights

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Crane	194	43	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	14	3.89	1.34	3.59	1.33	0.34	0.03	0.01	0.03	0.01	0.00
											3.89	**1.34**	**3.59**	**1.33**	**0.34**	**0.03**	**0.01**	**0.03**	**0.01**	**0.00**

Table A-2
Underground Utilities and Surface Improvments
Phase 1
Montecito Ranch

UNDERGROUND UTILITIES AND SURFACE IMPROVEMENTS

Phase 2D Base/AC Paving

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Paving Machine	91	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	20	1.48	0.40	2.45	0.86	0.22	0.01	0.00	0.02	0.01	0.00
Roller	99	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	3	8	20	4.72	1.28	7.79	2.73	0.70	0.05	0.01	0.08	0.03	0.01
											6.20	**1.68**	**10.24**	**3.59**	**0.93**	**0.06**	**0.02**	**0.10**	**0.04**	**0.01**

Phase 2E Signage/Striping

Equipment	HP	Load Factor	CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	CO	VOC	NOX	SOX	PM10	CO	VOC	NOX	SOX	PM10
Skiploader	39	51.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	15	0.55	0.15	0.92	0.32	0.08	0.00	0.00	0.01	0.00	0.00
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	15	3.82	1.32	3.53	1.31	0.34	0.03	0.01	0.03	0.01	0.00
											4.37	**1.47**	**4.44**	**1.63**	**0.42**	**0.03**	**0.01**	**0.03**	**0.01**	**0.00**
											#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Phase 3 Landscaping
Phase 3A Planting & Irrigation, Trails, Parks

Equipment	HP	Load Factor	CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	CO	VOC	NOX	SOX	PM10	CO	VOC	NOX	SOX	PM10
Landscaping Trucks	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	3	8	88	11.46	3.96	10.58	3.94	1.01	0.50	0.17	0.47	0.17	0.04
											11.46	**3.96**	**10.58**	**3.94**	**1.01**	**0.50**	**0.17**	**0.47**	**0.17**	**0.04**

		Total days
Total diesel particulate, tons	**0.45**	610

Table A-3
Underground Utilities and Surface Improvments
Phase 2
Montecito Ranch

UNDERGROUND UTILITIES AND SURFACE IMPROVEMENTS

Phase 1 Underground Utilities

Phase 1A Storm Drain

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
245 Excavator	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	88	0.90	0.24	1.48	0.52	0.13	0.04	0.01	0.07	0.02	0.01
235 Excavator with Compaction Wheel	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	88	0.90	0.24	1.48	0.52	0.13	0.04	0.01	0.07	0.02	0.01
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	88	2.19	0.59	3.62	1.27	0.33	0.10	0.03	0.16	0.06	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	88	9.34	3.23	8.62	3.21	0.82	0.41	0.14	0.38	0.14	0.04
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	88	3.82	1.32	3.53	1.31	0.34	0.17	0.06	0.16	0.06	0.01
											17.15	**5.63**	**18.74**	**6.83**	**1.76**	**0.75**	**0.25**	**0.82**	**0.30**	**0.08**

Phase 1B Sewer

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
245 Excavator	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	80	0.90	0.24	1.48	0.52	0.13	0.04	0.01	0.06	0.02	0.01
235 Excavator with Compaction Wheel	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	80	0.90	0.24	1.48	0.52	0.13	0.04	0.01	0.06	0.02	0.01
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	80	2.19	0.59	3.62	1.27	0.33	0.09	0.02	0.14	0.05	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	80	9.34	3.23	8.62	3.21	0.82	0.37	0.13	0.34	0.13	0.03
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	80	3.82	1.32	3.53	1.31	0.34	0.15	0.05	0.14	0.05	0.01
											17.15	**5.63**	**18.74**	**6.83**	**1.76**	**0.69**	**0.23**	**0.75**	**0.27**	**0.07**

Phase 1C Water

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
245 Excavator	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	60	0.90	0.24	1.48	0.52	0.13	0.03	0.01	0.04	0.02	0.00
235 Excavator with Compaction Wheel	56	58	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	60	0.90	0.24	1.48	0.52	0.13	0.03	0.01	0.04	0.02	0.00
966 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	60	2.19	0.59	3.62	1.27	0.33	0.07	0.02	0.11	0.04	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	60	9.34	3.23	8.62	3.21	0.82	0.28	0.10	0.26	0.10	0.02
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	60	3.82	1.32	3.53	1.31	0.34	0.11	0.04	0.11	0.04	0.01
											17.15	**5.63**	**18.74**	**6.83**	**1.76**	**0.51**	**0.17**	**0.56**	**0.20**	**0.05**

Phase 1D Dry Utilities

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
446B Backhoe	77	46.5	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	2	8	88	3.34	1.15	3.08	1.15	0.29	0.15	0.05	0.14	0.05	0.01
950 Loader	147	54	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	88	2.19	0.59	3.62	1.27	0.33	0.10	0.03	0.16	0.06	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	88	9.34	3.23	8.62	3.21	0.82	0.41	0.14	0.38	0.14	0.04
											14.87	**4.97**	**15.33**	**5.62**	**1.45**	**0.65**	**0.22**	**0.67**	**0.25**	**0.06**
							Simultaneous Activity				66.31	21.86	71.53	26.11	6.71	2.61	0.86	2.81	1.03	0.26

Phase 2 Surface Improvements

Phase 2A Balance/Fine Grade

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
14G Blade (Motor Grader)	156.6	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	2	8	75	4.98	1.35	8.22	2.88	0.74	0.19	0.05	0.31	0.11	0.03
623 Scraper	266.76	66	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	75	4.86	1.32	8.03	2.82	0.73	0.18	0.05	0.30	0.11	0.03
Vibratory Roller	99	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	75	1.57	0.43	2.60	0.91	0.23	0.06	0.02	0.10	0.03	0.01
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	75	9.34	3.23	8.62	3.21	0.82	0.35	0.12	0.32	0.12	0.03
											20.75	**6.32**	**27.47**	**9.82**	**2.53**	**0.78**	**0.24**	**1.03**	**0.37**	**0.09**

Phase 2B Curb & Gutter/Sidewalks/Driveways

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Curb Machine (Concrete Pavers)	130	62	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	82	2.23	0.60	3.68	1.29	0.33	0.09	0.02	0.15	0.05	0.01
Pavers	130	62	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	82	2.23	0.60	3.68	1.29	0.33	0.09	0.02	0.15	0.05	0.01
											4.45	**1.21**	**7.36**	**2.58**	**0.67**	**0.18**	**0.05**	**0.30**	**0.11**	**0.03**

Phase 2C Street Lights

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Crane	194	43	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	14	3.89	1.34	3.59	1.33	0.34	0.03	0.01	0.03	0.01	0.00
											3.89	**1.34**	**3.59**	**1.33**	**0.34**	**0.03**	**0.01**	**0.03**	**0.01**	**0.00**

Table A-3
Underground Utilities and Surface Improvments
Phase 2
Montecito Ranch

UNDERGROUND UTILITIES AND SURFACE IMPROVEMENTS

Phase 2D Base/AC Paving

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Paving Machine	91	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	20	1.48	0.40	2.45	0.86	0.22	0.01	0.00	0.02	0.01	0.00
Roller	99	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	3	8	20	4.72	1.28	7.79	2.73	0.70	0.05	0.01	0.08	0.03	0.01
											6.20	**1.68**	**10.24**	**3.59**	**0.93**	**0.06**	**0.02**	**0.10**	**0.04**	**0.01**

Phase 2E Signage/Striping

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Skiploader	39	51.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	15	0.55	0.15	0.92	0.32	0.08	0.00	0.00	0.01	0.00	0.00
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	15	3.82	1.32	3.53	1.31	0.34	0.03	0.01	0.03	0.01	0.00
											4.37	**1.47**	**4.44**	**1.63**	**0.42**	**0.03**	**0.01**	**0.03**	**0.01**	**0.00**
							Simultaneous Activity				#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Phase 3 Landscaping
Phase 3A Planting & Irrigation, Trails, Parks

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Landscaping Trucks	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	3	8	88	11.46	3.96	10.58	3.94	1.01	0.50	0.17	0.47	0.17	0.04
											11.46	**3.96**	**10.58**	**3.94**	**1.01**	**0.50**	**0.17**	**0.47**	**0.17**	**0.04**

		Total days
Total diesel particulate, tons	**0.45**	610

Table A-4
House Construction Emissions
Montecito Ranch

HOUSE CONSTRUCTION

Phase Equipment - Fuel	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Cranes	194	43	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	500	3.89	1.34	3.59	1.33	0.34	0.97	0.34	0.90	0.33	0.09
Generator Sets	22	74	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	2	8	500	0.90	0.24	1.49	0.52	0.13	0.22	0.06	0.37	0.13	0.03
Forklifts	93	47.5	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	4	8	500	8.23	2.84	7.60	2.83	0.73	2.06	0.71	1.90	0.71	0.18
											13.02	**4.43**	**12.67**	**4.68**	**1.20**	**3.25**	**1.11**	**3.17**	**1.17**	**0.30**

Table A-5
Roadway Improvements Construction Emissions
Montecito Ranch

ROADWAY IMPROVEMENTS OPTION A

Phase 1 Surface Improvements
Phase 1A Grading

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
14G Blade (Motor Grader)	156.6	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	2	8	30	4.98	1.35	8.22	2.88	0.74	0.07	0.02	0.12	0.04	0.01
623 Scraper	266.76	66	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	30	4.86	1.32	8.03	2.82	0.73	0.07	0.02	0.12	0.04	0.01
Vibratory Roller	99	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	30	1.57	0.43	2.60	0.91	0.23	0.02	0.01	0.04	0.01	0.00
2000 Gallon Water Truck	489	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	30	9.34	3.23	8.62	3.21	0.82	0.14	0.05	0.13	0.05	0.01
											20.75	**6.32**	**27.47**	**9.82**	**2.53**	**0.31**	**0.09**	**0.41**	**0.15**	**0.04**

Phase 1B Paving - Curbs & Gutters

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Curb Machine (Concrete Pavers)	130	62	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	30	2.23	0.60	3.68	1.29	0.33	0.03	0.01	0.06	0.02	0.00
Pavers	130	62	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	30	2.23	0.60	3.68	1.29	0.33	0.03	0.01	0.06	0.02	0.00
											4.45	**1.21**	**7.36**	**2.58**	**0.67**	**0.07**	**0.02**	**0.11**	**0.04**	**0.01**

Phase 1C Base/AC Paving

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Paving Machine	91	59	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	120	1.48	0.40	2.45	0.86	0.22	0.09	0.02	0.15	0.05	0.01
Roller	99	57.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	3	8	120	4.72	1.28	7.79	2.73	0.70	0.28	0.08	0.47	0.16	0.04
											6.20	**1.68**	**10.24**	**3.59**	**0.93**	**0.37**	**0.10**	**0.61**	**0.22**	**0.06**

Phase 1D Signage/Striping

Equipment	HP	Load Factor	Emission Factors (lb/bhp-hr) CO	VOC	NOX	SOX	PM10	No of Equip	Hrs Per Day	Days in Service	Emissions, lbs/day CO	VOC	NOX	SOX	PM10	Emission, tons (total) CO	VOC	NOX	SOX	PM10
Skiploader	39	51.5	3.45E-03	9.36E-04	5.70E-03	2.00E-03	5.16E-04	1	8	15	0.55	0.15	0.92	0.32	0.08	0.00	0.00	0.01	0.00	0.00
Crew Truck	200	41	5.82E-03	2.01E-03	5.38E-03	2.00E-03	5.13E-04	1	8	15	3.82	1.32	3.53	1.31	0.34	0.03	0.01	0.03	0.01	0.00
											4.37	**1.47**	**4.44**	**1.63**	**0.42**	**0.03**	**0.01**	**0.03**	**0.01**	**0.00**
											35.78	10.68	49.51	17.62	4.54	0.78	0.22	1.17	0.41	0.11

		Total days
total diesel particulate, tons	**0.11**	195

Table A-6
Architectural Coatings Emissions
Montecito Ranch

Calculation Methodology - Table A11-13-D, SCAQMD CEQA Handbook

Residential

Assumptions

2500 square feet per residence

2.7 square feet of surface area to be coated per square foot of floor space, 3 weeks per phase to paint, 3 p

Residences	Square Fe	Square Feet - Coated Surface Area	Emission Factor for ROC, lbs/1000 square feet	Total Emissions, tons	Daily Emissions, lbs/day
243	2500	1640250	4.62	3.79	48.58
174	2500	1174500	4.62	2.71	34.78

Assuming Electrostatic sprayguns, brush

Table A-7
Construction Diesel Particulate Risk Calculations
Montecito Ranch

Construction Phase	Diesel Particulate Emissions, total tons	Days	lbs/year	grams/second	Impact ug/m3	Risk
Rough Grading	0.85	483	1284.679089	0.018477854	4.60E-02	2.61E-07
Underground Utilities and Surface Improvements, Phase 1	0.45	610	855.46875	0.012304416	3.06E-02	2.19E-07
Underground Utilities and Surface Improvements, Phase 2	0.45	610	739.8648649	0.010641657	2.65E-02	1.90E-07
House Construction	0.30	500	438	0.006299861	1.57E-02	9.20E-08
Roadway Improvements	0.11	195	220	0.003164314	7.87E-03	1.80E-08
Wastewater Reclamation Facility						
						7.80E-07

Maximum Impacts at MEI (based on 1 g/sec emission rate)					
UTMN	UTME	All Source	Source 4	Source 5	Source 6
510350	3657500	3.318	4.319	7.289	

Table A-8
Construction Worker Estimates And Emission Calculations
Montecito Ranch

Construction Worker Estimates and Emission Calculations

Per Table A9-17, SCAQMD CEQA Air Quality Handbook, the number of construction workerrs is estimated by E = FxGxH/1E6 xI or GxH/1E6 x I where F,G,H,I in Tables A9-17A through A9-17C.

Construction Phase	E	F	G	H	I
House Construction	209.4137304	55.7	1042500	9.2	0.392
Streets and Highways	239.7141589		59612000	8.78	0.458
Landscaping	15				

Construction Phase	Vehicle Class	No. of Workers Per Construction Phase	Speed (mph)	VMT (mi/vehicle day)	CO Running Exhaust (g/mi)	CO Start-Up (g/start)[a]	NO_x Running Exhaust (g/mi)	NO_x Start-Up (g/start)[a]	VOCs Running Exhaust (g/mi)	VOCs Start-Up (g/start)[a]	VOCs Hot-Soak (g/trip)	VOCs Resting Loss (g/hr)	VOCs Running Evaporative (g/mi)	VOCs Diurnal Evaporative (g/hr)	SOx Running Exhaust (g/mi)	SOx Start-Up (g/start)[a]	PM10 Running Exhaust (g/mi)	PM10 Start-Up (g/start)[a]	PM10 Tire Wear (g/mi)	PM10 Brake Wear (g/mi)	Emissions, lbs/day CO	NOx	VOCs	SOx	PM10
Rough Grading - Maximum Workforce	Light-duty truck, catalyst	40	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***25.72***	***2.45***	***1.33***	***0.02***	***0.17***
Phase 1 Underground Utilities	Light-duty truck, catalyst	52	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***33.43***	***3.19***	***1.74***	***0.02***	***0.22***
Phase 1 Surface Improvements	Light-duty truck, catalyst	20	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***12.86***	***1.23***	***0.67***	***0.01***	***0.08***
Phase 1 Landscaping	Light-duty truck, catalyst	15	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***9.64***	***0.92***	***0.50***	***0.01***	***0.06***
Phase 2 Underground Utilities	Light-duty truck, catalyst	52	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***33.43***	***3.19***	***1.74***	***0.02***	***0.22***
Phase 2 Surface Improvements	Light-duty truck, catalyst	20	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***12.86***	***1.23***	***0.67***	***0.01***	***0.08***
Phase 2 Landscaping	Light-duty truck, catalyst	15	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***9.64***	***0.92***	***0.50***	***0.01***	***0.06***
House Construction	Light-duty truck, catalyst	209	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***134.38***	***12.80***	***6.97***	***0.09***	***0.87***
Streets & Highways (onsite and offsite roadway improvements)	Light-duty truck, catalyst	240	27	50	5.192	16.018	0.526	0.742	0.177	1.252	0.129	0.018	0.078	0	0.004	0.002	0.016	0.016	0.008	0.013	***154.31***	***14.70***	***8.01***	***0.11***	***1.00***

Distances Calculated using
www.mapquest.com:
Construction crew from
Escondido/San Marcos
(approximately 25 miles one way
)
Assume startup after 8 hours
Assume 45 minutes run time
total
2008 Emission Factors from
EMFAC2002, average temp 55F

Table A-9
Construction Truck Trip Emissions
Montecito Ranch

Construction Phase	Vehicle Class	No. of Trucks Per Construction Phase	Speed (mph)	VMT (mi/vehicle day)	CO Running Exhaust (g/mi)	NO_X Running Exhaust (g/mi)	VOCs Running Exhaust (g/mi)	SOx Running Exhaust (g/mi)	PM10 Running Exhaust (g/mi)	Tire Wear (g/mi)	Brake Wear (g/mi)	Emissions, lbs/day CO	NOx	VOCs	SOx	PM10
Rough Grading	Heavy-duty truck	25	27	50	2.619	10.555	0.69	0.021	0.287	0.036	0.013	***7.22***	***29.09***	***1.90***	***0.06***	***0.93***
Phase 1 Utilities and Surface Improvements	Heavy-duty truck	50	27	50	2.619	10.555	0.69	0.021	0.287	0.036	0.013	***14.43***	***58.17***	***3.80***	***0.12***	***1.85***
Phase 2 Utilities and Surface Improvements	Heavy-duty truck	50	27	50	2.619	10.555	0.69	0.021	0.287	0.036	0.013	***14.43***	***58.17***	***3.80***	***0.12***	***1.85***
Roadway Improvements	Heavy-duty truck	25	27	50	2.619	10.555	0.69	0.021	0.287	0.036	0.013	***7.22***	***29.09***	***1.90***	***0.06***	***0.93***
House Construction	Heavy-duty truck	50	27	50	2.619	10.555	0.69	0.021	0.287	0.036	0.013	***14.43***	***58.17***	***3.80***	***0.12***	***1.85***

Distances Calculated using www.mapquest.com: Construction crew from Escondido/San Marcos (approximately 25 miles one way)
Emission factors from 2008 EMFAC2002, 27 mph, Heavy Duty Diesel truck (HHD)

Table A-10
Construction Heavy Equipment Emissions
Montecito Ranch Wastewater Reclamation Facility

CECOR Construction Emissions Calculation: Off-Road equipment
YEAR: 2010

If Edit needed see "Equipment" Sheet

Equipment	FUEL	HP	Load Factor	No of Equipment	Hrs Per Day	Days in Service /Year	Days In Service	Emissions CO lbs/day	VOC lbs/day	NOX lbs/day	SOX lbs/day	PM10 lbs/day	Emission, tons (total) CO tons (total)	VOC tons (total)	NOX tons (total)	SOX tons (total)	PM10 tons (total)
Grading and Site Prep																	
657E Scraper	DIESEL	410	66	8	8	25	25	31.52	8.64	83.44	0.19	3.20	0.394	0.108	1.043	0.002	0.040
D-10R Dozer	DIESEL	580	59	1	8	25	25	6.56	1.73	16.70	0.03	0.64	0.082	0.022	0.209	0.000	0.008
D-9L Dozer	DIESEL	410	59	1	8	25	25	3.52	0.97	9.32	0.02	0.36	0.044	0.012	0.117	0.000	0.004
834B Rubber Tired Dozer	DIESEL	467	59	1	8	25	25	4.01	1.10	10.62	0.02	0.41	0.050	0.014	0.133	0.000	0.005
16G Blade	DIESEL	265	57.5	1	8	25	25	2.22	0.61	5.87	0.01	0.23	0.028	0.008	0.073	0.000	0.003
Water Trucks	DIESEL	489	41	1	8	25	25	2.92	0.80	7.73	0.02	0.30	0.036	0.010	0.097	0.000	0.004
								SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM
								50.75	13.84	133.69	0.29	5.14	0.63	0.17	1.67	0.00	0.06
Wastewater Treatment Plant Construction																	
Forklifts	DIESEL	93	47.5	4	8	310	310	4.88	1.32	8.06	0.02	0.73	0.757	0.205	1.250	0.002	0.113
Generators	DIESEL	22	74	2	8	310	310	1.52	0.52	1.40	0.00	0.13	0.235	0.081	0.217	0.000	0.021
Welders	DIESEL	35	45	2	8	310	310	1.47	0.51	1.35	0.00	0.13	0.227	0.079	0.210	0.000	0.020
Crane	DIESEL	99	57.5	1	8	310	310	1.57	0.43	2.60	0.00	0.23	0.244	0.066	0.403	0.001	0.036
								SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM	SUM
								9.44	2.78	13.42	0.03	1.23	1.46	0.43	2.08	0.00	0.19

Table A-11
Construction Worker Emission Calculations
Montecito Ranch Wastewater Reclamation Facility

2010 Construction Worker Estimates and Emission Calculations

									VOCs								PM10				Emissions, lbs/day					Months in ⸢Days/mont Emissions, tons/year					
		No. of Workers	**Speed**	**VMT**	**CO**		**NO_x**		**Running Exhaust**						**SOx**				**Tire Wear**												
Construction Phase	**Vehicle Class**	**Per Construction Phase**	**(mph)**	**(mi/vehicle day)**	**Running Exhaust (g/mi)**	**Start-Up (g/start)[a]**	**Running Exhaust (g/mi)**	**Start-Up (g/start)[a]**	**(g/mi)**	**Start-Up (g/start)[a]**	**Hot-Soak (g/trip)**	**Resting Loss (g/hr)**	**Running Evaporative (g/mi)**	**Diurnal Evaporative (g/hr)**	**Running Exhaust (g/mi)**	**Start-Up (g/start)[a]**	**Running Exhaust (g/mi)**	**Start-Up (g/start)[a]**	**(g/mi)**	**Brake Wear (g/mi)**	CO	NOx	VOCs	SOx	PM10		CO	NOx	VOCs	SOx	PM10
All	Light-duty truck, catalyst	70	27	40	3.973	13.554	0.4	0.64	0.101	1.027	0.095	0.018	0.068	0	0.004	0.002	0.015	0.017	0.008	0.013	***28.71***	***2.67***	***1.45***	***0.03***	***0.23***	1 25	0.358858	0.033334	0.01812	0.000316	0.002843

Assume startup after 8 hours
Assume 45 minutes run time total
2010 Emission Factors from
EMFAC2002, average temp 55F

Table A-12
Construction Truck Trip Emissions
Montecito Ranch Wastewater Reclamation Facility

							VOCs		PM10			Emissions, lbs/day					Months in 2	Days/mont	Emissions, tons/year				
Construction Phase	**Vehicle Class**	**No. of Trucks Per Construction Phase**	**Speed (mph)**	**VMT (mi/vehicle-day)**	**CO Running Exhaust (g/mi)**	**NO_X Running Exhaust (g/mi)**	**Running Exhaust (g/mi)**	**SOx Running Exhaust (g/mi)**	**Running Exhaust (g/mi)**	**Tire Wear (g/mi)**	**Brake Wear (g/mi)**	CO	NOx	VOCs	SOx	PM10			CO	NOx	VOCs	SOx	PM10
All	Heavy-duty truck	50	27	40	2.225	8.224	0.582	0.021	0.238	0.036	0.013	***9.81***	***36.26***	***2.57***	***0.09***	***1.27***	11	30	***1.62***	***5.98***	***0.42***	***0.02***	***0.21***

Assuming trucks would travel up to 5 miles one way for aggregate and RCC materials, assuming materials provided from San Marcos/Escondido area.

Emission factors from 2010 EMFAC2002, 27 mph, Heavy Duty Diesel truck (HHD)

Montecito Ranch Residential Construction Risk Evaluation – ISCST3 Output

```
NO ECHO



 BEE-Line ISCST3 "BEEST" Version 8.10

 Input File - C:\Beework\MontecitoRanchResidential.DTA
Output File - C:\Beework\MontecitoRanchResidential.LST
   Met File - C:\MetData\MIR95.ASC



 *** Message Summary For ISC3 Model Setup ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            3 Warning Message(s)
A Total of            0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
SO W320    18 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    20 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    22 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS

***********************************
*** SETUP Finishes Successfully ***
***********************************
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   1
CONC                        RURAL  ELEV          DFAULT

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Use Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           8. "Upper Bound" Values for Supersquat Buildings.
           9. No Exponential Decay for RURAL Mode

**Model Accepts Receptors on ELEV Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:     3 Source(s);      4 Source Group(s); and     111 Receptor(s)

**The Model Assumes A Pollutant Type of:  OTHER

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and
Missing Hours

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot.
Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission
Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.2 MB of RAM.

**Input Runstream File:          C:\Beework\MontecitoRanchResidential.DTA
**Output Print File:             C:\Beework\MontecitoRanchResidential.LST
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   2
CONC                        RURAL  ELEV          DFAULT


                                                 *** POINT SOURCE DATA ***


             NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK
STACK    BUILDING EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL.
DIAMETER   EXISTS   SCALAR VARY
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)
(METERS)                BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -

  POINT4        0   0.10000E+01  509570.1 3658177.0   481.2     3.00   422.04   100.00
0.15      NO
  POINT5        0   0.10000E+01  509826.9 3658282.0   466.5     3.00   422.04   100.00
0.15      NO
  POINT6        0   0.10000E+01  510169.3 3658105.0   466.2     3.00   422.04   100.00
0.15      NO
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   3
CONC                        RURAL  ELEV          DFAULT


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID                                                     SOURCE IDs


 ALL       POINT4  , POINT5  , POINT6  ,

 POINT4    POINT4  ,

 POINT5    POINT5  ,

 POINT6    POINT6  ,
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   4
CONC                        RURAL  ELEV          DFAULT


                                       *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                         *** X-COORDINATES OF GRID ***
                                                   (METERS)

      509150.0,  509250.0,  509350.0,  509450.0,  509550.0,

                                         *** Y-COORDINATES OF GRID ***
                                                   (METERS)

     3656800.0, 3656900.0, 3657000.0,
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   5
CONC                        RURAL  ELEV          DFAULT


                                 *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                             * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 3657000.00 |        444.10       445.90       452.60       449.90       449.90
 3656900.00 |        440.60       442.60       443.30       444.80       445.30
 3656800.00 |        439.70       442.00       444.30       445.40       449.00
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   6
CONC                        RURAL  ELEV          DFAULT


                                       *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                         *** X-COORDINATES OF GRID ***
                                                   (METERS)

      509650.0,  509750.0,  509850.0,  509950.0,  510050.0,  510150.0,  510250.0,
510350.0,  510450.0,  510550.0,
      510650.0,  510750.0,

                                         *** Y-COORDINATES OF GRID ***
                                                   (METERS)

     3656800.0, 3656900.0, 3657000.0, 3657100.0, 3657200.0, 3657300.0, 3657400.0,
3657500.0,
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   7
CONC                        RURAL  ELEV          DFAULT


                                 *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                             * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00    510450.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 3657500.00 |        523.20       526.80       519.70       522.30       524.60
516.60       509.50       504.00       500.30
 3657400.00 |        533.70       535.20       524.00       504.90       511.60
514.30       513.90       520.40       513.30
 3657300.00 |        521.00       506.60       506.00       496.90       489.40
494.10       498.30       503.00       499.90
 3657200.00 |        479.80       473.50       472.90       472.90       471.10
475.40       478.30       481.40       482.40
 3657100.00 |        459.60       461.90       461.00       459.90       463.40
467.70       469.50       475.30       480.40
 3657000.00 |        449.90       449.60       449.90       457.90       469.60
474.90       480.40       487.90       499.00
 3656900.00 |        448.20       451.20       463.30       472.50       482.60
493.90       499.10       505.60       507.70
 3656800.00 |        449.70       453.20       460.00       460.60       470.10
485.30       499.90       495.30       496.30
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   8
CONC                        RURAL  ELEV          DFAULT


                                 *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                             * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     510550.00    510650.00    510750.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 3657500.00 |        507.30       514.00       510.60
 3657400.00 |        516.70       515.20       509.40
 3657300.00 |        501.10       506.00       505.10
 3657200.00 |        488.00       495.00       503.60
 3657100.00 |        498.70       509.30       511.70
 3657000.00 |        512.70       521.70       517.90
 3656900.00 |        508.00       511.00       501.10
 3656800.00 |        504.70       504.70       506.90
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE   9
CONC                        RURAL  ELEV          DFAULT


                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

```
                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                              (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,  10.80,

                                                  *** WIND PROFILE EXPONENTS ***

               STABILITY                                WIND SPEED CATEGORY
               CATEGORY         1              2              3              4
5              6
                  A          .70000E-01     .70000E-01     .70000E-01     .70000E-01
.70000E-01     .70000E-01
                  B          .70000E-01     .70000E-01     .70000E-01     .70000E-01
.70000E-01     .70000E-01
                  C          .10000E+00     .10000E+00     .10000E+00     .10000E+00
.10000E+00     .10000E+00
                  D          .15000E+00     .15000E+00     .15000E+00     .15000E+00
.15000E+00     .15000E+00
                  E          .35000E+00     .35000E+00     .35000E+00     .35000E+00
.35000E+00     .35000E+00
                  F          .55000E+00     .55000E+00     .55000E+00     .55000E+00
.55000E+00     .55000E+00


                                         *** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
                                                  (DEGREES KELVIN PER METER)

               STABILITY                                WIND SPEED CATEGORY
               CATEGORY         1              2              3              4
5              6
                  A          .00000E+00     .00000E+00     .00000E+00     .00000E+00
.00000E+00     .00000E+00
```

```
                B          .00000E+00     .00000E+00     .00000E+00     .00000E+00
.00000E+00     .00000E+00
                C          .00000E+00     .00000E+00     .00000E+00     .00000E+00
.00000E+00     .00000E+00
                D          .00000E+00     .00000E+00     .00000E+00     .00000E+00
.00000E+00     .00000E+00
                E          .20000E-01     .20000E-01     .20000E-01     .20000E-01
.20000E-01     .20000E-01
                F          .35000E-01     .35000E-01     .35000E-01     .35000E-01
.35000E-01     .35000E-01
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  10
CONC                        RURAL  ELEV          DFAULT


                     *** THE FIRST  24 HOURS OF METEOROLOGICAL DATA ***

     FILE:   C:\MetData\MIR95.ASC
     FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
     SURFACE STATION NO.:  93107                    UPPER AIR STATION NO.:   3190
                    NAME: MIRAMAR_NAS,CA                             NAME: UNKNOWN
                    YEAR:   1995                                     YEAR:   1995

             FLOW   SPEED  TEMP  STAB  MIXING HEIGHT (M)  USTAR  M-O LENGTH   Z-0 IPCODE
PRATE
YR MN DY HR VECTOR  (M/S)   (K)  CLASS   RURAL   URBAN    (M/S)     (M)       (M)
(mm/HR)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

95 01 01 01  181.0   1.00  282.6   6    1255.7   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 02  268.0   1.03  282.0   6    1267.5   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 03  244.0   1.03  282.6   6    1279.3   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 04  293.0   1.54  282.6   6    1291.1   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 05  293.0   2.06  282.6   5    1302.9   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 06  292.0   0.00  282.6   6    1314.7   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 07  285.0   1.03  280.4   5      13.8   251.5    0.0000       0.0  0.0000   0
0.00
95 01 01 08  253.0   1.00  283.2   4     213.1   416.8    0.0000       0.0  0.0000   0
0.00
95 01 01 09  247.0   0.00  288.7   3     412.4   582.2    0.0000       0.0  0.0000   0
0.00
95 01 01 10  151.0   2.06  288.7   3     611.8   747.6    0.0000       0.0  0.0000   0
0.00
95 01 01 11  144.0   2.06  289.3   3     811.1   912.9    0.0000       0.0  0.0000   0
0.00
95 01 01 12  136.0   4.12  290.9   3    1010.4  1078.3    0.0000       0.0  0.0000   0
0.00
95 01 01 13  143.0   3.60  291.5   3    1209.7  1243.6    0.0000       0.0  0.0000   0
0.00
95 01 01 14  129.0   4.12  289.3   3    1409.0  1409.0    0.0000       0.0  0.0000   0
0.00
95 01 01 15  132.0   4.12  290.4   3    1409.0  1409.0    0.0000       0.0  0.0000   0
0.00
95 01 01 16  144.0   3.09  289.3   4    1409.0  1409.0    0.0000       0.0  0.0000   0
0.00
95 01 01 17  161.0   2.06  288.2   5    1409.5  1371.2    0.0000       0.0  0.0000   0
0.00
95 01 01 18   57.0   1.03  284.8   6    1412.2  1182.2    0.0000       0.0  0.0000   0
0.00
95 01 01 19   64.0   0.00  283.7   7    1414.9   993.1    0.0000       0.0  0.0000   0
0.00
95 01 01 20   57.0   0.00  281.5   7    1417.6   804.1    0.0000       0.0  0.0000   0
0.00
95 01 01 21  280.0   1.03  282.0   7    1420.3   615.1    0.0000       0.0  0.0000   0
0.00
95 01 01 22  272.0   1.03  280.9   7    1423.0   426.1    0.0000       0.0  0.0000   0
0.00
95 01 01 23  270.0   1.54  280.9   7    1425.7   237.0    0.0000       0.0  0.0000   0
0.00
```

```
95 01 01 24  270.0   1.54  282.0   7    1428.4    48.0    0.0000       0.0  0.0000   0
0.00


*** NOTES:  STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
            FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  11
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):      POINT4  , POINT5  , POINT6  ,

                                  *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       0.18730      0.20816      0.32188      0.38931      0.50888
 3656900.00 |       0.16547      0.19140      0.24114      0.33327      0.42791
 3656800.00 |       0.16495      0.19806      0.26523      0.35030      0.49775
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  12
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):      POINT4  , POINT5  , POINT6  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00    510450.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 3657500.00 |       8.18396     10.59644     12.07359     12.44980     13.16239
14.58997     14.86188     14.92675     14.27691
 3657400.00 |       7.30348      8.71079     10.36029     11.13107     11.86353
12.68053     13.07083     12.31958     12.20215
 3657300.00 |       6.66362      7.61281      8.84706      9.63364      9.76965
11.04015     11.68881     11.12890     10.90765
 3657200.00 |       3.01723      3.07719      3.55087      4.15756      4.69058
6.41597      7.53253      8.16000      8.47581
 3657100.00 |       0.93672      1.34920      1.49515      1.59694      2.33867
3.46802      4.72272      6.63007      7.24442
 3657000.00 |       0.60661      0.74915      0.86665      1.38503      4.13731
5.49154      6.75136      8.54230      8.21551
 3656900.00 |       0.56850      0.79944      1.54610      3.53909      5.51200
7.82031      7.91059      7.73341      7.52400
 3656800.00 |       0.60784      0.86313      1.29283      1.47681      3.68478
6.79777      7.08554      7.29258      7.45483
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  13
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):      POINT4  , POINT5  , POINT6  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     510550.00    510650.00    510750.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |      12.35596     10.11512      9.11864
 3657400.00 |      10.75574      9.47917      8.20028
 3657300.00 |       9.97119      9.20000      8.12004
 3657200.00 |       9.73196      8.46175      7.41276
 3657100.00 |       8.41582      7.82312      6.87539
 3657000.00 |       7.62120      6.77302      6.28687
 3656900.00 |       6.90161      6.71683      6.20280
 3656800.00 |       6.63579      6.48010      6.00795
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  14
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT4   ***
                                 INCLUDING SOURCE(S):      POINT4  ,

                                  *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       0.05442      0.06296      0.10532      0.16134      0.23711
 3656900.00 |       0.04899      0.05831      0.08136      0.14124      0.20152
 3656800.00 |       0.04823      0.05928      0.08930      0.14961      0.22906
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  15
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT4   ***
                                 INCLUDING SOURCE(S):      POINT4  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00    510450.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -


 3657500.00 |       5.66956      6.63807      6.56791      5.77897      4.86402
3.98408      3.47419      3.31845      3.16481
 3657400.00 |       4.92354      5.25780      5.68723      5.52276      4.54612
3.70884      3.34060      2.75946      2.52345
 3657300.00 |       4.21927      4.35091      4.63905      4.33347      3.30915
3.28611      3.03297      2.65165      2.44772
 3657200.00 |       1.16340      0.83249      0.87838      1.09507      1.11443
1.39222      1.32115      1.22806      1.24676
 3657100.00 |       0.38811      0.43989      0.44913      0.52123      0.74074
0.92221      0.98748      1.01747      1.04878
 3657000.00 |       0.25912      0.26426      0.27931      0.43117      0.88562
1.16169      1.50084      2.18881      2.17902
 3656900.00 |       0.24122      0.27338      0.45807      0.77752      1.47322
2.75712      2.70605      2.58620      2.18140
 3656800.00 |       0.25175      0.28828      0.38472      0.41736      0.73521
2.35863      2.55036      2.32515      2.16903
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  16
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT4   ***
                                 INCLUDING SOURCE(S):      POINT4  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     510550.00    510650.00    510750.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       2.98011      2.64312      2.54170
 3657400.00 |       2.47735      2.39751      2.28709
 3657300.00 |       2.28906      2.30099      2.22617
 3657200.00 |       1.94408      1.94068      1.88989
 3657100.00 |       1.88986      1.83872      1.60660
 3657000.00 |       1.92481      1.51422      1.48342
 3656900.00 |       1.83279      1.72832      1.50889
 3656800.00 |       1.90003      1.70534      1.51504
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  17
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT5   ***
                                 INCLUDING SOURCE(S):      POINT5  ,

                                  *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       0.09092      0.09535      0.12796      0.12303      0.15074
 3656900.00 |       0.07815      0.07985      0.08771      0.09994      0.12846
 3656800.00 |       0.07301      0.07679      0.09197      0.10447      0.15757
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  18
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT5   ***
                                 INCLUDING SOURCE(S):      POINT5  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00    510450.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       1.77950      2.92293      4.17225      4.99278      5.26162
5.32976      4.85023      4.31939      3.46051
 3657400.00 |       1.68994      2.59931      3.51718      4.22785      4.59469
4.71187      4.36135      3.69347      3.52976
 3657300.00 |       1.72662      2.35111      3.13261      3.67754      4.07465
4.13867      4.03789      3.65799      3.17830
 3657200.00 |       1.27525      1.65686      2.03023      2.23133      2.30326
2.74709      3.15614      3.35873      3.14307
 3657100.00 |       0.34933      0.69122      0.81076      0.79989      1.01068
1.33009      1.63060      2.86666      2.81032
 3657000.00 |       0.22686      0.36775      0.45631      0.69498      1.97992
2.36465      2.61758      3.17125      2.73355
 3656900.00 |       0.22115      0.39650      0.83401      1.86560      2.40260
2.66831      2.54107      2.43351      2.38427
 3656800.00 |       0.24702      0.43201      0.68571      0.73732      1.70388
2.32345      2.26912      2.36003      2.56414
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  19
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT5   ***
                                 INCLUDING SOURCE(S):      POINT5  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     510550.00    510650.00    510750.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       2.89684      2.44944      2.41825
 3657400.00 |       2.71029      2.36331      2.07675
 3657300.00 |       2.65816      2.41851      2.04789
 3657200.00 |       2.92007      2.30500      1.99675
 3657100.00 |       2.64230      2.32976      1.93925
 3657000.00 |       2.32049      2.03462      1.88679
 3656900.00 |       2.18061      2.06193      1.83520
 3656800.00 |       2.15681      1.99753      1.81812
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07

                                   ***
***        15:32:07
**MODELOPTs:
PAGE  20
CONC                        RURAL  ELEV          DFAULT

                            *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT6   ***
                                INCLUDING SOURCE(S):      POINT6  ,

                                 *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       0.04196      0.04984      0.08860      0.10494      0.12103
 3656900.00 |       0.03834      0.05325      0.07207      0.09208      0.09792
 3656800.00 |       0.04371      0.06199      0.08396      0.09623      0.11112
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  21
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT6   ***
                                 INCLUDING SOURCE(S):      POINT6  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                                X-COORD (METERS)

   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00    510450.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 3657500.00 |       0.73490      1.03545      1.33344      1.67806      3.03671
5.27614      6.53745      7.28897      7.65157
 3657400.00 |       0.69000      0.85367      1.15589      1.38046      2.72270
4.25981      5.36882      5.86665      6.14892
 3657300.00 |       0.71775      0.91080      1.07539      1.62263      2.38588
3.61539      4.61797      4.81927      5.28160
 3657200.00 |       0.57859      0.58784      0.64227      0.83116      1.27291
2.27668      3.05526      3.57324      4.08601
 3657100.00 |       0.19928      0.21810      0.23526      0.27583      0.58726
1.21572      2.10464      2.74595      3.38534
 3657000.00 |       0.12062      0.11714      0.13103      0.25887      1.27177
1.96521      2.63294      3.18224      3.30295
 3656900.00 |       0.10613      0.12956      0.25403      0.89597      1.63618
2.39488      2.66347      2.71369      2.95833
 3656800.00 |       0.10907      0.14285      0.22240      0.32213      1.24571
2.11568      2.26605      2.60741      2.72167
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  22
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT6   ***
                                 INCLUDING SOURCE(S):      POINT6  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     510550.00    510650.00    510750.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       6.47898      5.02258      4.15873
 3657400.00 |       5.56808      4.71837      3.83645
 3657300.00 |       5.02398      4.48049      3.84599
 3657200.00 |       4.86780      4.21607      3.52609
 3657100.00 |       3.88367      3.65466      3.32950
 3657000.00 |       3.37590      3.22420      2.91663
 3656900.00 |       2.88821      2.92659      2.85871
 3656800.00 |       2.57894      2.77722      2.67479
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  23
CONC                        RURAL  ELEV          DFAULT

                                          *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS)
RESULTS ***


                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**


NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

ALL      1ST HIGHEST VALUE IS      14.92675 AT (  510350.00,  3657500.00,    504.00,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS      14.86188 AT (  510250.00,  3657500.00,    509.50,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS      14.58997 AT (  510150.00,  3657500.00,    516.60,
0.00)  GC   GRID2
         4TH HIGHEST VALUE IS      14.27691 AT (  510450.00,  3657500.00,    500.30,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS      13.16239 AT (  510050.00,  3657500.00,    524.60,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS      13.07083 AT (  510250.00,  3657400.00,    513.90,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS      12.68053 AT (  510150.00,  3657400.00,    514.30,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS      12.44980 AT (  509950.00,  3657500.00,    522.30,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS      12.35596 AT (  510550.00,  3657500.00,    507.30,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS      12.31958 AT (  510350.00,  3657400.00,    520.40,
0.00)  GC   GRID2

POINT4   1ST HIGHEST VALUE IS       6.63807 AT (  509750.00,  3657500.00,    526.80,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS       6.56791 AT (  509850.00,  3657500.00,    519.70,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS       5.77897 AT (  509950.00,  3657500.00,    522.30,
0.00)  GC   GRID2
         4TH HIGHEST VALUE IS       5.68723 AT (  509850.00,  3657400.00,    524.00,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS       5.66956 AT (  509650.00,  3657500.00,    523.20,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS       5.52276 AT (  509950.00,  3657400.00,    504.90,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS       5.25780 AT (  509750.00,  3657400.00,    535.20,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS       4.92354 AT (  509650.00,  3657400.00,    533.70,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS       4.86402 AT (  510050.00,  3657500.00,    524.60,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS       4.63905 AT (  509850.00,  3657300.00,    506.00,
0.00)  GC   GRID2

POINT5   1ST HIGHEST VALUE IS       5.32976 AT (  510150.00,  3657500.00,    516.60,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS       5.26162 AT (  510050.00,  3657500.00,    524.60,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS       4.99278 AT (  509950.00,  3657500.00,    522.30,
0.00)  GC   GRID2
```

```
         4TH HIGHEST VALUE IS       4.85023 AT (  510250.00,  3657500.00,    509.50,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS       4.71187 AT (  510150.00,  3657400.00,    514.30,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS       4.59469 AT (  510050.00,  3657400.00,    511.60,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS       4.36135 AT (  510250.00,  3657400.00,    513.90,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS       4.31939 AT (  510350.00,  3657500.00,    504.00,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS       4.22785 AT (  509950.00,  3657400.00,    504.90,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS       4.17225 AT (  509850.00,  3657500.00,    519.70,
0.00)  GC   GRID2
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  24
CONC                        RURAL  ELEV          DFAULT

                                          *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS)
RESULTS ***


                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**


NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

POINT6   1ST HIGHEST VALUE IS       7.65157 AT (  510450.00,  3657500.00,    500.30,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS       7.28897 AT (  510350.00,  3657500.00,    504.00,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS       6.53745 AT (  510250.00,  3657500.00,    509.50,
0.00)  GC   GRID2
         4TH HIGHEST VALUE IS       6.47898 AT (  510550.00,  3657500.00,    507.30,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS       6.14892 AT (  510450.00,  3657400.00,    513.30,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS       5.86665 AT (  510350.00,  3657400.00,    520.40,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS       5.56808 AT (  510550.00,  3657400.00,    516.70,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS       5.36882 AT (  510250.00,  3657400.00,    513.90,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS       5.28160 AT (  510450.00,  3657300.00,    499.90,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS       5.27614 AT (  510150.00,  3657500.00,    516.60,
0.00)  GC   GRID2


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
                      BD = BOUNDARY
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch RESIDENTIAL Construction HRA
***        01/30/07
                                   ***
***        15:32:07
**MODELOPTs:
PAGE  25
CONC                        RURAL  ELEV          DFAULT


*** Message Summary : ISCST3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            3 Warning Message(s)
A Total of         1526 Informational Message(s)

A Total of         1526 Calm Hours Identified


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
SO W320    18 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    20 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    22 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
```

Montecito Ranch WRF Construction Risk Evaluation – ISCST3 Output

```
NO ECHO



 BEE-Line ISCST3 "BEEST" Version 8.10

 Input File - C:\Beework\MontecitoRanch.DTA
Output File - C:\Beework\MontecitoRanch.LST
   Met File - C:\MetData\MIR95.ASC



 *** Message Summary For ISC3 Model Setup ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            6 Warning Message(s)
A Total of            0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
SO W320    18 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    20 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    22 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    24 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    26 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    28 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS

***********************************
*** SETUP Finishes Successfully ***
***********************************
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   1
CONC                        RURAL  ELEV          DFAULT

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses RURAL Dispersion.

**Model Uses Regulatory DEFAULT Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Use Calms Processing Routine.

           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           8. "Upper Bound" Values for Supersquat Buildings.
           9. No Exponential Decay for RURAL Mode

**Model Accepts Receptors on ELEV Terrain.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:     6 Source(s);      7 Source Group(s); and      79 Receptor(s)


**The Model Assumes A Pollutant Type of:  OTHER

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and
Missing Hours

**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot.
Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission
Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.2 MB of RAM.

**Input Runstream File:          C:\Beework\MontecitoRanch.DTA
**Output Print File:             C:\Beework\MontecitoRanch.LST
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   2
CONC                        RURAL  ELEV          DFAULT


                                                 *** POINT SOURCE DATA ***


             NUMBER EMISSION RATE                    BASE     STACK   STACK    STACK
STACK    BUILDING EMISSION RATE
   SOURCE     PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT VEL.
DIAMETER   EXISTS   SCALAR VARY
     ID       CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)  (M/SEC)
(METERS)                BY
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - -

  POINT         0   0.10000E+01  509120.8 3657314.0   446.3     3.00   422.04   100.00
0.15      NO
  POINT2        0   0.10000E+01  508925.7 3657184.5   446.3     3.00   422.04   100.00
0.15      NO
  POINT3        0   0.10000E+01  509349.0 3657449.5   452.5     3.00   422.04   100.00
0.15      NO
  POINT4        0   0.10000E+01  509570.1 3658177.0   481.2     3.00   422.04   100.00
0.15      NO
  POINT5        0   0.10000E+01  509826.9 3658282.0   466.5     3.00   422.04   100.00
0.15      NO
  POINT6        0   0.10000E+01  510169.3 3658105.0   466.2     3.00   422.04   100.00
0.15      NO
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   3
CONC                        RURAL  ELEV          DFAULT


                                         *** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID                                                     SOURCE IDs


 ALL       POINT   , POINT2  , POINT3  , POINT4  , POINT5  , POINT6  ,

 POINT     POINT   ,

 POINT2    POINT2  ,

 POINT3    POINT3  ,

 POINT4    POINT4  ,

 POINT5    POINT5  ,

 POINT6    POINT6  ,
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   4
CONC                        RURAL  ELEV          DFAULT


                                       *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                         *** X-COORDINATES OF GRID ***
                                                   (METERS)

      509150.0,  509250.0,  509350.0,  509450.0,  509550.0,

                                         *** Y-COORDINATES OF GRID ***
                                                   (METERS)

     3656800.0, 3656900.0, 3657000.0,
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   5
CONC                        RURAL  ELEV          DFAULT


                                 *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                             * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 3657000.00 |        444.10       445.90       452.60       449.90       449.90
 3656900.00 |        440.60       442.60       443.30       444.80       445.30
 3656800.00 |        439.70       442.00       444.30       445.40       449.00
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   6
CONC                        RURAL  ELEV          DFAULT


                                       *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                 *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                         *** X-COORDINATES OF GRID ***
                                                   (METERS)

      509650.0,  509750.0,  509850.0,  509950.0,  510050.0,  510150.0,  510250.0,
510350.0,

                                         *** Y-COORDINATES OF GRID ***
                                                   (METERS)

     3656800.0, 3656900.0, 3657000.0, 3657100.0, 3657200.0, 3657300.0, 3657400.0,
3657500.0,
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   7
CONC                        RURAL  ELEV          DFAULT


                                 *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                             * ELEVATION HEIGHTS IN METERS *

   Y-COORD  |                                                X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 3657500.00 |        523.20       526.80       519.70       522.30       524.60
516.60       509.50       504.00
 3657400.00 |        533.70       535.20       524.00       504.90       511.60
514.30       513.90       520.40
 3657300.00 |        521.00       506.60       506.00       496.90       489.40
494.10       498.30       503.00

 3657200.00 |        479.80       473.50       472.90       472.90       471.10
475.40       478.30       481.40
 3657100.00 |        459.60       461.90       461.00       459.90       463.40
467.70       469.50       475.30
 3657000.00 |        449.90       449.60       449.90       457.90       469.60
474.90       480.40       487.90
 3656900.00 |        448.20       451.20       463.30       472.50       482.60
493.90       499.10       505.60
 3656800.00 |        449.70       453.20       460.00       460.60       470.10
485.30       499.90       495.30
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   8
CONC                        RURAL  ELEV          DFAULT


                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS
INCLUDED IN THE DATA FILE.



                                     *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                                (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,  10.80,

                                                  *** WIND PROFILE EXPONENTS ***


              STABILITY                                WIND SPEED CATEGORY
              CATEGORY         1              2              3              4
5             6
                 A          .70000E-01     .70000E-01     .70000E-01     .70000E-01
.70000E-01     .70000E-01
                 B          .70000E-01     .70000E-01     .70000E-01     .70000E-01
.70000E-01     .70000E-01
                 C          .10000E+00     .10000E+00     .10000E+00     .10000E+00
.10000E+00     .10000E+00
                 D          .15000E+00     .15000E+00     .15000E+00     .15000E+00
.15000E+00     .15000E+00
                 E          .35000E+00     .35000E+00     .35000E+00     .35000E+00
.35000E+00     .35000E+00
                 F          .55000E+00     .55000E+00     .55000E+00     .55000E+00
.55000E+00     .55000E+00


                                        *** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
                                                 (DEGREES KELVIN PER METER)


              STABILITY                                WIND SPEED CATEGORY
              CATEGORY         1              2              3              4
5             6
                 A          .00000E+00     .00000E+00     .00000E+00     .00000E+00
.00000E+00     .00000E+00
```

```
                    B          .00000E+00     .00000E+00     .00000E+00     .00000E+00
.00000E+00     .00000E+00
                    C          .00000E+00     .00000E+00     .00000E+00     .00000E+00
.00000E+00     .00000E+00
                    D          .00000E+00     .00000E+00     .00000E+00     .00000E+00
.00000E+00     .00000E+00
                    E          .20000E-01     .20000E-01     .20000E-01     .20000E-01
.20000E-01     .20000E-01
                    F          .35000E-01     .35000E-01     .35000E-01     .35000E-01
.35000E-01     .35000E-01
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE   9
CONC                        RURAL  ELEV          DFAULT


                     *** THE FIRST  24 HOURS OF METEOROLOGICAL DATA ***

     FILE:   C:\MetData\MIR95.ASC
     FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
     SURFACE STATION NO.:  93107                    UPPER AIR STATION NO.:   3190
                    NAME: MIRAMAR_NAS,CA                             NAME: UNKNOWN
                    YEAR:   1995                                     YEAR:   1995

             FLOW   SPEED  TEMP  STAB  MIXING HEIGHT (M)  USTAR  M-O LENGTH   Z-0 IPCODE
PRATE
YR MN DY HR VECTOR  (M/S)   (K)  CLASS   RURAL   URBAN    (M/S)     (M)       (M)
(mm/HR)
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

95 01 01 01  181.0   1.00  282.6   6    1255.7   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 02  268.0   1.03  282.0   6    1267.5   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 03  244.0   1.03  282.6   6    1279.3   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 04  293.0   1.54  282.6   6    1291.1   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 05  293.0   2.06  282.6   5    1302.9   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 06  292.0   0.00  282.6   6    1314.7   240.0    0.0000       0.0  0.0000   0
0.00
95 01 01 07  285.0   1.03  280.4   5      13.8   251.5    0.0000       0.0  0.0000   0
0.00
95 01 01 08  253.0   1.00  283.2   4     213.1   416.8    0.0000       0.0  0.0000   0
0.00
95 01 01 09  247.0   0.00  288.7   3     412.4   582.2    0.0000       0.0  0.0000   0
0.00
95 01 01 10  151.0   2.06  288.7   3     611.8   747.6    0.0000       0.0  0.0000   0
0.00
95 01 01 11  144.0   2.06  289.3   3     811.1   912.9    0.0000       0.0  0.0000   0
0.00
95 01 01 12  136.0   4.12  290.9   3    1010.4  1078.3    0.0000       0.0  0.0000   0
0.00
95 01 01 13  143.0   3.60  291.5   3    1209.7  1243.6    0.0000       0.0  0.0000   0
0.00
95 01 01 14  129.0   4.12  289.3   3    1409.0  1409.0    0.0000       0.0  0.0000   0
0.00
95 01 01 15  132.0   4.12  290.4   3    1409.0  1409.0    0.0000       0.0  0.0000   0
0.00
95 01 01 16  144.0   3.09  289.3   4    1409.0  1409.0    0.0000       0.0  0.0000   0
0.00
95 01 01 17  161.0   2.06  288.2   5    1409.5  1371.2    0.0000       0.0  0.0000   0
0.00
95 01 01 18   57.0   1.03  284.8   6    1412.2  1182.2    0.0000       0.0  0.0000   0
0.00
95 01 01 19   64.0   0.00  283.7   7    1414.9   993.1    0.0000       0.0  0.0000   0
0.00
95 01 01 20   57.0   0.00  281.5   7    1417.6   804.1    0.0000       0.0  0.0000   0
0.00
95 01 01 21  280.0   1.03  282.0   7    1420.3   615.1    0.0000       0.0  0.0000   0
0.00
95 01 01 22  272.0   1.03  280.9   7    1423.0   426.1    0.0000       0.0  0.0000   0
0.00
95 01 01 23  270.0   1.54  280.9   7    1425.7   237.0    0.0000       0.0  0.0000   0
0.00
```

```
95 01 01 24  270.0   1.54  282.0   7    1428.4    48.0    0.0000       0.0  0.0000   0
0.00


*** NOTES:  STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
            FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  10
CONC                        RURAL  ELEV          DFAULT

                            *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):      POINT   , POINT2  , POINT3  ,
POINT4  , POINT5  , POINT6  ,

                                 *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       8.43717     10.41628     16.48120     13.67478     13.59924
 3656900.00 |       4.72233      6.32010      8.05023      8.47094      8.26750
 3656800.00 |       3.53088      4.69397      6.54111      7.46213      8.52236
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  11
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):      POINT   , POINT2  , POINT3  ,
POINT4  , POINT5  , POINT6  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 3657500.00 |      23.96259     23.21804     22.01450     20.57188     19.94438
20.39277     19.98023     19.49195
 3657400.00 |      28.26818     24.57038     22.33327     21.04605     20.06979
19.50037     18.95515     17.43074
 3657300.00 |      33.48631     26.28306     22.63827     20.66987     18.89017
18.45405     18.06292     16.63160
 3657200.00 |      26.97891     22.33956     19.15725     16.56132     14.70272
14.70020     14.59188     14.21488
 3657100.00 |      17.67039     16.80042     14.74053     12.72165     12.36236
12.20124     12.24037     13.35587
 3657000.00 |      12.46159     11.14105     10.02323     12.06563     14.50769
14.73423     14.46832     15.14762
 3656900.00 |       9.06483     11.17092     13.60292     14.66735     15.78775
16.58030     15.42122     14.28030
 3656800.00 |      10.79434     11.22095     12.48936     11.47356     13.63100
15.20055     14.67748     13.96888
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  12
CONC                        RURAL  ELEV          DFAULT

                            *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT    ***
                                INCLUDING SOURCE(S):      POINT   ,

                                 *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                      ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       1.16394      2.86367      7.11612      6.48113      6.66519
 3656900.00 |       0.87124      1.55595      2.69647      3.05513      3.15032
 3656800.00 |       0.83584      1.24645      2.26147      2.72743      2.81497
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  13
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT    ***
                                 INCLUDING SOURCE(S):      POINT   ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       3.76349      2.72832      2.25144      1.92862      1.77852
1.68546      1.44785      1.33692
 3657400.00 |       4.73899      3.80363      3.17339      2.84396      2.33353
2.09513      1.76314      1.61268
 3657300.00 |       6.08304      4.76510      3.92772      3.25010      2.75167
2.33116      1.93834      1.69299
 3657200.00 |       6.85217      4.97905      4.30142      3.55004      3.04995
2.48400      2.22915      1.88065
 3657100.00 |       6.85887      5.56949      4.06746      3.25675      2.98012
2.52221      2.17083      2.01154
 3657000.00 |       5.78617      4.98104      4.04542      3.66017      3.33419
2.84936      2.24348      1.90859
 3656900.00 |       3.47320      4.63326      4.84898      4.19400      3.61190
2.92896      2.46484      2.03437
 3656800.00 |       3.81784      3.95589      4.38430      3.90278      3.73249
2.95113      2.54995      2.15334
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  14
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT2   ***
                                 INCLUDING SOURCE(S):      POINT2  ,

                                  *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       6.91242      7.07392      7.74620      5.40492      4.12793
 3656900.00 |       3.53500      4.31111      4.47624      4.18868      3.37761
 3656800.00 |       2.37325      2.95200      3.30015      3.48576      3.81424
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  15
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT2   ***
                                 INCLUDING SOURCE(S):      POINT2  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       2.59318      2.20607      1.74053      1.43874      1.16819
1.03941      0.90587      0.86799
 3657400.00 |       2.20796      1.83840      1.69952      1.58255      1.44594
1.30124      1.20881      1.04688
 3657300.00 |       3.02521      2.60031      2.29005      1.93081      1.82647
1.56432      1.44557      1.24532
 3657200.00 |       3.98095      3.30417      2.80811      2.43360      2.19096
1.82035      1.63107      1.42195
 3657100.00 |       3.73452      3.33442      2.80727      2.39432      2.18239
1.99784      1.73066      1.52987
 3657000.00 |       3.32218      2.75431      2.41558      2.43389      2.22282
1.99898      1.76225      1.46947
 3656900.00 |       2.91040      3.38095      3.23632      2.66637      2.26844
1.95647      1.67983      1.45463
 3656800.00 |       4.38376      3.85417      3.38424      2.86549      2.72881
2.05178      1.80669      1.60671
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  16
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT3   ***
                                 INCLUDING SOURCE(S):      POINT3  ,

                                  *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       0.17353      0.27055      1.29711      1.39947      2.29720
 3656900.00 |       0.15062      0.26167      0.63639      0.89388      1.31169
 3656800.00 |       0.15685      0.29746      0.71425      0.89867      1.39540
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  17
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT3   ***
                                 INCLUDING SOURCE(S):      POINT3  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       9.42204      7.68721      5.94890      4.75475      3.83527
3.07799      2.76464      2.36027
 3657400.00 |      14.01780     10.21763      7.10002      5.48841      4.42681
3.42348      2.91238      2.45158
 3657300.00 |      17.71427     11.30486      7.57356      5.85529      4.54243
3.51843      2.99019      2.56446
 3657200.00 |      13.12851     10.97919      8.49690      6.42012      4.77127
3.97990      3.19909      2.75232
 3657100.00 |       6.14034      6.54732      6.37070      5.47370      4.86128
4.21322      3.61620      3.18433
 3657000.00 |       2.74668      2.65653      2.69561      4.58653      4.81340
4.39436      3.71126      3.22727
 3656900.00 |       2.11275      2.35736      3.97158      4.26792      4.39543
3.87451      3.36598      3.05796
 3656800.00 |       1.98491      2.54782      3.42799      3.22851      3.48495
3.39988      3.23533      2.91621
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  18
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT4   ***
                                 INCLUDING SOURCE(S):      POINT4  ,

                                  *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       0.05442      0.06296      0.10532      0.16134      0.23711
 3656900.00 |       0.04899      0.05831      0.08136      0.14124      0.20152
 3656800.00 |       0.04823      0.05928      0.08930      0.14961      0.22906
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  19
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT4   ***
                                 INCLUDING SOURCE(S):      POINT4  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       5.66956      6.63807      6.56791      5.77897      4.86402
3.98408      3.47419      3.31845
 3657400.00 |       4.92354      5.25780      5.68723      5.52276      4.54612
3.70884      3.34060      2.75946
 3657300.00 |       4.21927      4.35091      4.63905      4.33347      3.30915
3.28611      3.03297      2.65165
 3657200.00 |       1.16340      0.83249      0.87838      1.09507      1.11443
1.39222      1.32115      1.22806
 3657100.00 |       0.38811      0.43989      0.44913      0.52123      0.74074
0.92221      0.98748      1.01747
 3657000.00 |       0.25912      0.26426      0.27931      0.43117      0.88562
1.16169      1.50084      2.18881
 3656900.00 |       0.24122      0.27338      0.45807      0.77752      1.47322
2.75712      2.70605      2.58620
 3656800.00 |       0.25175      0.28828      0.38472      0.41736      0.73521
2.35863      2.55036      2.32515
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  20
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT5   ***
                                 INCLUDING SOURCE(S):      POINT5  ,

                                  *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       0.09092      0.09535      0.12796      0.12303      0.15074
 3656900.00 |       0.07815      0.07985      0.08771      0.09994      0.12846
 3656800.00 |       0.07301      0.07679      0.09197      0.10447      0.15757
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  21
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT5   ***
                                 INCLUDING SOURCE(S):      POINT5  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       1.77950      2.92293      4.17225      4.99278      5.26162
5.32976      4.85023      4.31939
 3657400.00 |       1.68994      2.59931      3.51718      4.22785      4.59469
4.71187      4.36135      3.69347
 3657300.00 |       1.72662      2.35111      3.13261      3.67754      4.07465
4.13867      4.03789      3.65799
 3657200.00 |       1.27525      1.65686      2.03023      2.23133      2.30326
2.74709      3.15614      3.35873
 3657100.00 |       0.34933      0.69122      0.81076      0.79989      1.01068
1.33009      1.63060      2.86666
 3657000.00 |       0.22686      0.36775      0.45631      0.69498      1.97992
2.36465      2.61758      3.17125
 3656900.00 |       0.22115      0.39650      0.83401      1.86560      2.40260
2.66831      2.54107      2.43351
 3656800.00 |       0.24702      0.43201      0.68571      0.73732      1.70388
2.32345      2.26912      2.36003
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  22
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT6   ***
                                 INCLUDING SOURCE(S):      POINT6  ,

                                  *** NETWORK ID: GRID1    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509150.00    509250.00    509350.00    509450.00    509550.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657000.00 |       0.04196      0.04984      0.08860      0.10494      0.12103
 3656900.00 |       0.03834      0.05325      0.07207      0.09208      0.09792
 3656800.00 |       0.04371      0.06199      0.08396      0.09623      0.11112
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  23
CONC                        RURAL  ELEV          DFAULT

                             *** THE ANNUAL (   1 YRS) AVERAGE CONCENTRATION   VALUES FOR
SOURCE GROUP: POINT6   ***
                                 INCLUDING SOURCE(S):      POINT6  ,

                                  *** NETWORK ID: GRID2    ;  NETWORK TYPE: GRIDCART ***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**

   Y-COORD  |                                              X-COORD (METERS)
   (METERS) |     509650.00    509750.00    509850.00    509950.00    510050.00
510150.00    510250.00    510350.00
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 3657500.00 |       0.73490      1.03545      1.33344      1.67806      3.03671
5.27614      6.53745      7.28897
 3657400.00 |       0.69000      0.85367      1.15589      1.38046      2.72270
4.25981      5.36882      5.86665
 3657300.00 |       0.71775      0.91080      1.07539      1.62263      2.38588
3.61539      4.61797      4.81927
 3657200.00 |       0.57859      0.58784      0.64227      0.83116      1.27291
2.27668      3.05526      3.57324
 3657100.00 |       0.19928      0.21810      0.23526      0.27583      0.58726
1.21572      2.10464      2.74595
 3657000.00 |       0.12062      0.11714      0.13103      0.25887      1.27177
1.96521      2.63294      3.18224
 3656900.00 |       0.10613      0.12956      0.25403      0.89597      1.63618
2.39488      2.66347      2.71369
 3656800.00 |       0.10907      0.14285      0.22240      0.32213      1.24571
2.11568      2.26605      2.60741
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  24
CONC                        RURAL  ELEV          DFAULT

                                          *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS)
RESULTS ***


                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**


NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

ALL      1ST HIGHEST VALUE IS      33.48631 AT (  509650.00,  3657300.00,    521.00,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS      28.26818 AT (  509650.00,  3657400.00,    533.70,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS      26.97891 AT (  509650.00,  3657200.00,    479.80,
0.00)  GC   GRID2
         4TH HIGHEST VALUE IS      26.28306 AT (  509750.00,  3657300.00,    506.60,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS      24.57038 AT (  509750.00,  3657400.00,    535.20,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS      23.96259 AT (  509650.00,  3657500.00,    523.20,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS      23.21804 AT (  509750.00,  3657500.00,    526.80,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS      22.63827 AT (  509850.00,  3657300.00,    506.00,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS      22.33956 AT (  509750.00,  3657200.00,    473.50,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS      22.33327 AT (  509850.00,  3657400.00,    524.00,
0.00)  GC   GRID2

POINT    1ST HIGHEST VALUE IS       7.11612 AT (  509350.00,  3657000.00,    452.60,
0.00)  GC   GRID1
         2ND HIGHEST VALUE IS       6.85887 AT (  509650.00,  3657100.00,    459.60,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS       6.85217 AT (  509650.00,  3657200.00,    479.80,
0.00)  GC   GRID2
         4TH HIGHEST VALUE IS       6.66519 AT (  509550.00,  3657000.00,    449.90,
0.00)  GC   GRID1
         5TH HIGHEST VALUE IS       6.48113 AT (  509450.00,  3657000.00,    449.90,
0.00)  GC   GRID1
         6TH HIGHEST VALUE IS       6.08304 AT (  509650.00,  3657300.00,    521.00,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS       5.78617 AT (  509650.00,  3657000.00,    449.90,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS       5.56949 AT (  509750.00,  3657100.00,    461.90,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS       4.98104 AT (  509750.00,  3657000.00,    449.60,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS       4.97905 AT (  509750.00,  3657200.00,    473.50,
0.00)  GC   GRID2

POINT2   1ST HIGHEST VALUE IS       7.74620 AT (  509350.00,  3657000.00,    452.60,
0.00)  GC   GRID1
         2ND HIGHEST VALUE IS       7.07392 AT (  509250.00,  3657000.00,    445.90,
0.00)  GC   GRID1
         3RD HIGHEST VALUE IS       6.91242 AT (  509150.00,  3657000.00,    444.10,
0.00)  GC   GRID1
```

```
          4TH HIGHEST VALUE IS       5.40492 AT (  509450.00,  3657000.00,    449.90,
0.00)  GC   GRID1
          5TH HIGHEST VALUE IS       4.47624 AT (  509350.00,  3656900.00,    443.30,
0.00)  GC   GRID1
          6TH HIGHEST VALUE IS       4.38376 AT (  509650.00,  3656800.00,    449.70,
0.00)  GC   GRID2
          7TH HIGHEST VALUE IS       4.31111 AT (  509250.00,  3656900.00,    442.60,
0.00)  GC   GRID1
          8TH HIGHEST VALUE IS       4.18868 AT (  509450.00,  3656900.00,    444.80,
0.00)  GC   GRID1
          9TH HIGHEST VALUE IS       4.12793 AT (  509550.00,  3657000.00,    449.90,
0.00)  GC   GRID1
         10TH HIGHEST VALUE IS       3.98095 AT (  509650.00,  3657200.00,    479.80,
0.00)  GC   GRID2
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  25
CONC                        RURAL  ELEV          DFAULT

                                          *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS)
RESULTS ***


                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**


NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

POINT3   1ST HIGHEST VALUE IS      17.71427 AT (  509650.00,  3657300.00,    521.00,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS      14.01780 AT (  509650.00,  3657400.00,    533.70,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS      13.12851 AT (  509650.00,  3657200.00,    479.80,
0.00)  GC   GRID2
         4TH HIGHEST VALUE IS      11.30486 AT (  509750.00,  3657300.00,    506.60,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS      10.97919 AT (  509750.00,  3657200.00,    473.50,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS      10.21763 AT (  509750.00,  3657400.00,    535.20,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS       9.42204 AT (  509650.00,  3657500.00,    523.20,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS       8.49690 AT (  509850.00,  3657200.00,    472.90,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS       7.68721 AT (  509750.00,  3657500.00,    526.80,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS       7.57356 AT (  509850.00,  3657300.00,    506.00,
0.00)  GC   GRID2

POINT4   1ST HIGHEST VALUE IS       6.63807 AT (  509750.00,  3657500.00,    526.80,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS       6.56791 AT (  509850.00,  3657500.00,    519.70,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS       5.77897 AT (  509950.00,  3657500.00,    522.30,
0.00)  GC   GRID2
         4TH HIGHEST VALUE IS       5.68723 AT (  509850.00,  3657400.00,    524.00,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS       5.66956 AT (  509650.00,  3657500.00,    523.20,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS       5.52276 AT (  509950.00,  3657400.00,    504.90,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS       5.25780 AT (  509750.00,  3657400.00,    535.20,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS       4.92354 AT (  509650.00,  3657400.00,    533.70,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS       4.86402 AT (  510050.00,  3657500.00,    524.60,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS       4.63905 AT (  509850.00,  3657300.00,    506.00,
0.00)  GC   GRID2

POINT5   1ST HIGHEST VALUE IS       5.32976 AT (  510150.00,  3657500.00,    516.60,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS       5.26162 AT (  510050.00,  3657500.00,    524.60,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS       4.99278 AT (  509950.00,  3657500.00,    522.30,
0.00)  GC   GRID2
```

```
         4TH HIGHEST VALUE IS       4.85023 AT (  510250.00,  3657500.00,    509.50,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS       4.71187 AT (  510150.00,  3657400.00,    514.30,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS       4.59469 AT (  510050.00,  3657400.00,    511.60,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS       4.36135 AT (  510250.00,  3657400.00,    513.90,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS       4.31939 AT (  510350.00,  3657500.00,    504.00,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS       4.22785 AT (  509950.00,  3657400.00,    504.90,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS       4.17225 AT (  509850.00,  3657500.00,    519.70,
0.00)  GC   GRID2
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  26
CONC                        RURAL  ELEV          DFAULT

                                          *** THE SUMMARY OF MAXIMUM ANNUAL (   1 YRS)
RESULTS ***


                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
**


NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZFLAG)   OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - -

POINT6   1ST HIGHEST VALUE IS       7.28897 AT (  510350.00,  3657500.00,    504.00,
0.00)  GC   GRID2
         2ND HIGHEST VALUE IS       6.53745 AT (  510250.00,  3657500.00,    509.50,
0.00)  GC   GRID2
         3RD HIGHEST VALUE IS       5.86665 AT (  510350.00,  3657400.00,    520.40,
0.00)  GC   GRID2
         4TH HIGHEST VALUE IS       5.36882 AT (  510250.00,  3657400.00,    513.90,
0.00)  GC   GRID2
         5TH HIGHEST VALUE IS       5.27614 AT (  510150.00,  3657500.00,    516.60,
0.00)  GC   GRID2
         6TH HIGHEST VALUE IS       4.81927 AT (  510350.00,  3657300.00,    503.00,
0.00)  GC   GRID2
         7TH HIGHEST VALUE IS       4.61797 AT (  510250.00,  3657300.00,    498.30,
0.00)  GC   GRID2
         8TH HIGHEST VALUE IS       4.25981 AT (  510150.00,  3657400.00,    514.30,
0.00)  GC   GRID2
         9TH HIGHEST VALUE IS       3.61539 AT (  510150.00,  3657300.00,    494.10,
0.00)  GC   GRID2
        10TH HIGHEST VALUE IS       3.57324 AT (  510350.00,  3657200.00,    481.40,
0.00)  GC   GRID2


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
                      BD = BOUNDARY
```

```
 *** ISCST3 - VERSION 00101 ***    *** Montecito Ranch WTF Construction HRA
***        01/30/07
                                   ***
***        15:09:43
**MODELOPTs:
PAGE  27
CONC                        RURAL  ELEV          DFAULT


*** Message Summary : ISCST3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            6 Warning Message(s)
A Total of         1526 Informational Message(s)

A Total of         1526 Calm Hours Identified


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
SO W320    18 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS

SO W320    20 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    22 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    24 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    26 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS
SO W320    28 PPARM :Input Parameter May Be Out-of-Range for Parameter       VS

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
```

CALINE4 Model Outputs

```
CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Ash Street & Pine Street 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S            Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE           VD=   .0 CM/S
    CLAS=     7 (G)            VS=   .0 CM/S
    MIXH= 1000. M             AMB=   .0 PPM
   SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
----------------*-------------------------*------------------------------
A. Ash EBLA     *  -150     0     0     0 *  AG     26   7.5     .0  10.0
B. Ash EBTA     *  -150    -4     0    -4 *  AG     18   7.5     .0  10.0
C. Ash EBRA     *  -150    -6     0    -6 *  AG    120   7.5     .0  10.0
D. Ash EBD      *     0    -4   150    -4 *  AG     22   7.5     .0  10.0
E. Ash WBLA     *   150     0     0     0 *  AG      5   7.5     .0  10.0
F. Ash WBTA     *   150     4     0     4 *  AG     13   7.5     .0  10.0
G. Ash WBRA     *   150     6     0     6 *  AG      9   7.5     .0  10.0
H. Ash WBD      *     0     4  -150     4 *  AG    109   7.5     .0  10.0
I. Pine NBLA    *     0  -150     0     0 *  AG     81   7.5     .0  10.0
J. Pine NBTA    *     4  -150     4     0 *  AG    851   7.5     .0  10.0
K. Pine NBRA    *     6  -150     6     0 *  AG      2   7.5     .0  10.0
L. Pine NBD     *     4     0     4   150 *  AG    886   7.5     .0  10.0
M. Pine SBLA    *     0   150     0     0 *  AG      2   7.5     .0  10.0
N. Pine SBTA    *    -4   150    -4     0 *  AG    727   7.5     .0  10.0
O. Pine SBRA    *    -6   150    -6     0 *  AG     15   7.5     .0  10.0
P. Pine SBD     *    -4     0    -4  -150 *  AG    852   7.5     .0  10.0
```

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: Ash Street & Pine Street 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Ash Street & Pine Street 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.7	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	15.	.7	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	.7	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	23.	.4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	34.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	154.	.4	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	146.	.3	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	165.	.6	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	167.	.6	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	197.	.6	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	279.	.3	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	277.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	344.	.6	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	344.	.6	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.7	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	194.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	193.	.7	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.3	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	259.	.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Ash Street & Pine Street 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.3	.0	.3	.0	.0
2. Recpt 2	.0	.0	.0	.2	.0	.2	.0	.2
3. Recpt 3	.0	.0	.0	.2	.0	.0	.0	.3
4. Recpt 4	.0	.0	.0	.2	.0	.1	.0	.0
5. Recpt 5	.0	.0	.0	.1	.0	.1	.0	.0
6. Recpt 6	.0	.2	.0	.0	.0	.0	.0	.3
7. Recpt 7	.0	.1	.0	.0	.0	.0	.0	.2
8. Recpt 8	.0	.1	.0	.0	.0	.0	.0	.1
9. Recpt 9	.0	.2	.0	.0	.0	.0	.0	.2
10. Recpt 10	.0	.2	.0	.0	.0	.2	.0	.2
11. Recpt 11	.0	.3	.0	.0	.0	.0	.0	.2
12. Recpt 12	.0	.1	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.1	.0	.2	.0	.2	.0	.0
15. Recpt 15	.0	.2	.0	.1	.0	.1	.0	.0
16. Recpt 16	.0	.3	.0	.0	.0	.0	.0	.2
17. Recpt 17	.0	.2	.0	.2	.0	.0	.0	.2
18. Recpt 18	.0	.1	.0	.3	.0	.0	.0	.2
19. Recpt 19	.0	.2	.0	.0	.0	.0	.0	.1
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Ash Street & Pine Street 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Ash EBLA	-150	0	0	0	AG	25	7.5	.0	10.0
B. Ash EBTA	-150	-4	0	-4	AG	12	7.5	.0	10.0
C. Ash EBRA	-150	-6	0	-6	AG	94	7.5	.0	10.0
D. Ash EBD	0	-4	150	-4	AG	21	7.5	.0	10.0
E. Ash WBLA	150	0	0	0	AG	8	7.5	.0	10.0
F. Ash WBTA	150	4	0	4	AG	20	7.5	.0	10.0
G. Ash WBRA	150	6	0	6	AG	3	7.5	.0	10.0
H. Ash WBD	0	4	-150	4	AG	182	7.5	.0	10.0
I. Pine NBLA	0	-150	0	0	AG	134	7.5	.0	10.0
J. Pine NBTA	4	-150	4	0	AG	645	7.5	.0	10.0
K. Pine NBRA	6	-150	6	0	AG	4	7.5	.0	10.0
L. Pine NBD	4	0	4	150	AG	673	7.5	.0	10.0
M. Pine SBLA	0	150	0	0	AG	5	7.5	.0	10.0
N. Pine SBTA	-4	150	-4	0	AG	1057	7.5	.0	10.0
O. Pine SBRA	-6	150	-6	0	AG	28	7.5	.0	10.0
P. Pine SBD	-4	0	-4	-150	AG	1159	7.5	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Ash Street & Pine Street 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Ash Street & Pine Street 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.7	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	.7	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	.8	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	23.	.4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	30.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.7	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	155.	.4	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	146.	.3	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	166.	.7	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	167.	.7	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	197.	.6	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	280.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	278.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	201.	.6	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	344.	.6	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.7	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	194.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	194.	.7	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.4	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	260.	.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Ash Street & Pine Street 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.2	.0	.4	.0	.0
2. Recpt 2	.0	.0	.0	.2	.0	.2	.0	.2
3. Recpt 3	.0	.0	.0	.1	.0	.1	.0	.3
4. Recpt 4	.0	.0	.0	.1	.0	.2	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.1	.0	.0
6. Recpt 6	.0	.2	.0	.0	.0	.0	.0	.4
7. Recpt 7	.0	.1	.0	.0	.0	.0	.0	.2
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.2
9. Recpt 9	.0	.2	.0	.0	.0	.1	.0	.3
10. Recpt 10	.0	.1	.0	.0	.0	.2	.0	.2
11. Recpt 11	.0	.2	.0	.0	.0	.0	.0	.3
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.1
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.2	.0	.0	.0	.0	.0	.3
15. Recpt 15	.0	.2	.0	.0	.0	.2	.0	.0
16. Recpt 16	.0	.3	.0	.0	.0	.0	.0	.3
17. Recpt 17	.0	.2	.0	.1	.0	.0	.0	.3
18. Recpt 18	.0	.0	.0	.2	.0	.1	.0	.2
19. Recpt 19	.0	.1	.0	.0	.0	.0	.0	.2
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Pine Street & Olive Street 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S             Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE            VD=   .0 CM/S
    CLAS=     7 (G)             VS=   .0 CM/S
    MIXH= 1000. M              AMB=   .0 PPM
   SIGTH=   10. DEGREES       TEMP= 18.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. Olive EBLA  *  -150     0     0     0 *  AG     13   7.5     .0  10.0
B. Olive EBTA  *  -150    -4     0    -4 *  AG      1   7.5     .0  10.0
C. Olive EBRA  *  -150    -6     0    -6 *  AG     12   7.5     .0  10.0
D. Olive EBD   *     0    -4   150    -4 *  AG     28   7.5     .0  10.0
E. Olive WBLA  *   150     0     0     0 *  AG      5   7.5     .0  10.0
F. Olive WBTA  *   150     4     0     4 *  AG      1   7.5     .0  10.0
G. Olive WBRA  *   150     6     0     6 *  AG     24   7.5     .0  10.0
H. Olive WBD   *     0     4  -150     4 *  AG     14   7.5     .0  10.0
I. Pine NBLA   *     0  -150     0     0 *  AG      5   7.5     .0  10.0
J. Pine NBTA   *     4  -150     4     0 *  AG   1030   7.5     .0  10.0
K. Pine NBRA   *     6  -150     6     0 *  AG      2   7.5     .0  10.0
L. Pine NBD    *     4     0     4   150 *  AG   1067   7.5     .0  10.0
M. Pine SBLA   *     0   150     0     0 *  AG     25   7.5     .0  10.0
N. Pine SBTA   *    -4   150    -4     0 *  AG    813   7.5     .0  10.0
O. Pine SBRA   *    -6   150    -6     0 *  AG      8   7.5     .0  10.0
P. Pine SBD    *    -4     0    -4  -150 *  AG    830   7.5     .0  10.0
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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Pine Street & Olive Street 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine Street & Olive Street 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.7	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	.7	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	.7	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	23.	.4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	34.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	17.	.6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	154.	.3	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	146.	.3	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	164.	.6	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	165.	.6	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	344.	.6	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	334.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	326.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	345.	.6	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.6	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.7	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	195.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	194.	.7	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.4	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	210.	.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Pine Street & Olive Street 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.3	.0	.3	.0	.0
2. Recpt 2	.0	.0	.0	.3	.0	.2	.0	.2
3. Recpt 3	.0	.1	.0	.2	.0	.1	.0	.3
4. Recpt 4	.0	.0	.0	.2	.0	.2	.0	.0
5. Recpt 5	.0	.0	.0	.1	.0	.1	.0	.0
6. Recpt 6	.0	.0	.0	.3	.0	.3	.0	.0
7. Recpt 7	.0	.2	.0	.0	.0	.0	.0	.2
8. Recpt 8	.0	.1	.0	.0	.0	.0	.0	.1
9. Recpt 9	.0	.3	.0	.0	.0	.1	.0	.2
10. Recpt 10	.0	.2	.0	.0	.0	.2	.0	.1
11. Recpt 11	.0	.0	.0	.4	.0	.2	.0	.0
12. Recpt 12	.0	.0	.0	.2	.0	.1	.0	.0
13. Recpt 13	.0	.0	.0	.1	.0	.1	.0	.0
14. Recpt 14	.0	.1	.0	.3	.0	.2	.0	.0
15. Recpt 15	.0	.2	.0	.1	.0	.2	.0	.0
16. Recpt 16	.0	.4	.0	.0	.0	.0	.0	.2
17. Recpt 17	.0	.2	.0	.2	.0	.0	.0	.2
18. Recpt 18	.0	.1	.0	.3	.0	.0	.0	.2
19. Recpt 19	.0	.2	.0	.0	.0	.0	.0	.1
20. Recpt 20	.0	.1	.0	.0	.0	.0	.0	.1

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Pine Street & Olive Street 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Olive EBLA	*	-150	0	0	0	* AG	16	7.5	.0	10.0
B. Olive EBTA	*	-150	-4	0	-4	* AG	1	7.5	.0	10.0
C. Olive EBRA	*	-150	-6	0	-6	* AG	10	7.5	.0	10.0
D. Olive EBD	*	0	-4	150	-4	* AG	24	7.5	.0	10.0
E. Olive WBLA	*	150	0	0	0	* AG	5	7.5	.0	10.0
F. Olive WBTA	*	150	4	0	4	* AG	1	7.5	.0	10.0
G. Olive WBRA	*	150	6	0	6	* AG	28	7.5	.0	10.0
H. Olive WBD	*	0	4	-150	4	* AG	22	7.5	.0	10.0
I. Pine NBLA	*	0	-150	0	0	* AG	9	7.5	.0	10.0
J. Pine NBTA	*	4	-150	4	0	* AG	861	7.5	.0	10.0
K. Pine NBRA	*	6	-150	6	0	* AG	6	7.5	.0	10.0
L. Pine NBD	*	4	0	4	150	* AG	905	7.5	.0	10.0
M. Pine SBLA	*	0	150	0	0	* AG	16	7.5	.0	10.0
N. Pine SBTA	*	-4	150	-4	0	* AG	1099	7.5	.0	10.0
O. Pine SBRA	*	-6	150	-6	0	* AG	12	7.5	.0	10.0
P. Pine SBD	*	-4	0	-4	-150	* AG	1114	7.5	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Pine Street & Olive Street 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine Street & Olive Street 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.8	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	.8	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	.8	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	23.	.4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	30.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.7	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	154.	.4	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	146.	.3	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	164.	.7	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	165.	.7	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	344.	.7	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	334.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	326.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	344.	.7	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.7	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.7	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	195.	.7	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	194.	.7	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.4	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	214.	.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Pine Street & Olive Street 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.3	.0	.4	.0	.0
2. Recpt 2	.0	.0	.0	.2	.0	.3	.0	.2
3. Recpt 3	.0	.0	.0	.2	.0	.1	.0	.3
4. Recpt 4	.0	.0	.0	.2	.0	.2	.0	.0
5. Recpt 5	.0	.0	.0	.1	.0	.1	.0	.0
6. Recpt 6	.0	.2	.0	.0	.0	.0	.0	.4
7. Recpt 7	.0	.1	.0	.0	.0	.0	.0	.2
8. Recpt 8	.0	.1	.0	.0	.0	.0	.0	.1
9. Recpt 9	.0	.2	.0	.0	.0	.2	.0	.3
10. Recpt 10	.0	.2	.0	.0	.0	.3	.0	.2
11. Recpt 11	.0	.0	.0	.3	.0	.3	.0	.0
12. Recpt 12	.0	.0	.0	.2	.0	.2	.0	.0
13. Recpt 13	.0	.0	.0	.1	.0	.1	.0	.0
14. Recpt 14	.0	.1	.0	.2	.0	.3	.0	.0
15. Recpt 15	.0	.2	.0	.1	.0	.2	.0	.0
16. Recpt 16	.0	.3	.0	.0	.0	.0	.0	.3
17. Recpt 17	.0	.2	.0	.2	.0	.0	.0	.3
18. Recpt 18	.0	.1	.0	.3	.0	.1	.0	.2
19. Recpt 19	.0	.2	.0	.0	.0	.0	.0	.2
20. Recpt 20	.0	.1	.0	.0	.0	.0	.0	.1

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Pine Street & Main Street 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Main EBLA	-150	0	0	0	AG	322	7.5	.0	10.0
B. Main EBTA	-150	-4	0	-4	AG	659	7.5	.0	10.0
C. Main EBRA	-150	-6	0	-6	AG	165	7.5	.0	10.0
D. Main EBD	0	-4	150	-4	AG	868	7.5	.0	10.0
E. Main WBLA	150	0	0	0	AG	168	7.5	.0	10.0
F. Main WBTA	150	4	0	4	AG	729	7.5	.0	10.0
G. Main WBRA	150	6	0	6	AG	127	7.5	.0	10.0
H. Main WBD	0	4	-150	4	AG	1197	7.5	.0	10.0
I. Pine NBLA	0	-150	0	0	AG	187	7.5	.0	10.0
J. Pine NBTA	4	-150	4	0	AG	310	7.5	.0	10.0
K. Pine NBRA	6	-150	6	0	AG	96	7.5	.0	10.0
L. Pine NBD	4	0	4	150	AG	759	7.5	.0	10.0
M. Pine SBLA	0	150	0	0	AG	113	7.5	.0	10.0
N. Pine SBTA	-4	150	-4	0	AG	285	7.5	.0	10.0
O. Pine SBRA	-6	150	-6	0	AG	281	7.5	.0	10.0
P. Pine SBD	-4	0	-4	-150	AG	618	7.5	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Pine Street & Main Street 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine Street & Main Street 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	1.0	.0	.1	.0	.0	.0	.0	.0	.2
2. Recpt 2	12.	.8	.0	.0	.0	.0	.0	.0	.0	.1
3. Recpt 3	11.	.8	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	74.	.9	.0	.0	.0	.2	.0	.2	.0	.0
5. Recpt 5	74.	.9	.0	.2	.0	.1	.0	.1	.0	.1
6. Recpt 6	105.	1.0	.0	.0	.0	.2	.0	.3	.0	.0
7. Recpt 7	106.	1.0	.0	.0	.0	.2	.0	.2	.0	.3
8. Recpt 8	105.	1.0	.0	.0	.0	.2	.0	.0	.0	.4
9. Recpt 9	165.	.8	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	166.	.7	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	285.	1.1	.1	.3	.0	.0	.0	.0	.0	.3
12. Recpt 12	284.	1.0	.1	.2	.0	.2	.0	.0	.0	.3
13. Recpt 13	282.	.9	.0	.1	.0	.2	.0	.0	.0	.2
14. Recpt 14	347.	.8	.0	.0	.0	.1	.0	.0	.0	.0
15. Recpt 15	346.	.7	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	254.	1.1	.1	.2	.0	.0	.0	.0	.0	.4
17. Recpt 17	200.	.8	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	196.	.8	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	257.	1.0	.1	.2	.0	.0	.0	.0	.0	.3
20. Recpt 20	257.	.9	.0	.1	.0	.0	.0	.2	.0	.2

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Pine Street & Main Street 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.2	.0	.1	.1	.0
2. Recpt 2	.0	.0	.0	.2	.0	.0	.0	.1
3. Recpt 3	.0	.0	.0	.2	.0	.0	.0	.2
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.1	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.2
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.1
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.1
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.2	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.1	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.2	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.2	.0	.0	.0	.1
18. Recpt 18	.0	.0	.0	.3	.0	.0	.0	.1
19. Recpt 19	.0	.0	.0	.1	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Pine Street & Main Street 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Main EBLA	*	-150	0	0	0	* AG	375	7.5	.0	10.0
B. Main EBTA	*	-150	-4	0	-4	* AG	1259	7.5	.0	10.0
C. Main EBRA	*	-150	-6	0	-6	* AG	341	7.5	.0	10.0
D. Main EBD	*	0	-4	150	-4	* AG	1569	7.5	.0	10.0
E. Main WBLA	*	150	0	0	0	* AG	186	7.5	.0	10.0
F. Main WBTA	*	150	4	0	4	* AG	755	7.5	.0	10.0
G. Main WBRA	*	150	6	0	6	* AG	151	7.5	.0	10.0
H. Main WBD	*	0	4	-150	4	* AG	1302	7.5	.0	10.0
I. Pine NBLA	*	0	-150	0	0	* AG	172	7.5	.0	10.0
J. Pine NBTA	*	4	-150	4	0	* AG	262	7.5	.0	10.0
K. Pine NBRA	*	6	-150	6	0	* AG	153	7.5	.0	10.0
L. Pine NBD	*	4	0	4	150	* AG	788	7.5	.0	10.0
M. Pine SBLA	*	0	150	0	0	* AG	157	7.5	.0	10.0
N. Pine SBTA	*	-4	150	-4	0	* AG	434	7.5	.0	10.0
O. Pine SBRA	*	-6	150	-6	0	* AG	375	7.5	.0	10.0
P. Pine SBD	*	-4	0	-4	-150	* AG	961	7.5	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Pine Street & Main Street 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine Street & Main Street 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	1.3	.0	.3	.0	.0	.0	.0	.0	.2
2. Recpt 2	12.	1.1	.0	.1	.0	.0	.0	.0	.0	.1
3. Recpt 3	11.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	69.	1.2	.0	.3	.1	.2	.0	.2	.0	.0
5. Recpt 5	73.	1.2	.0	.3	.1	.1	.0	.1	.0	.1
6. Recpt 6	106.	1.3	.0	.0	.0	.4	.0	.3	.0	.0
7. Recpt 7	110.	1.2	.0	.0	.0	.3	.0	.0	.0	.4
8. Recpt 8	106.	1.2	.0	.2	.0	.2	.0	.0	.0	.4
9. Recpt 9	166.	1.0	.0	.1	.0	.0	.0	.0	.0	.2
10. Recpt 10	166.	.9	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	285.	1.5	.1	.5	.2	.0	.0	.0	.0	.4
12. Recpt 12	283.	1.3	.1	.3	.0	.3	.0	.0	.0	.3
13. Recpt 13	282.	1.3	.0	.2	.0	.4	.0	.0	.0	.3
14. Recpt 14	345.	.9	.0	.0	.0	.2	.0	.0	.0	.0
15. Recpt 15	345.	.9	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	253.	1.4	.1	.3	.0	.0	.0	.0	.0	.5
17. Recpt 17	200.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	196.	.9	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	255.	1.2	.1	.3	.0	.0	.0	.0	.0	.3
20. Recpt 20	257.	1.1	.0	.3	.0	.0	.0	.2	.0	.2

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Pine Street & Main Street 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.2	.0	.2	.2	.0
2. Recpt 2	.0	.0	.0	.2	.0	.1	.1	.2
3. Recpt 3	.0	.0	.0	.2	.0	.0	.0	.2
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.1
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.1	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.3
10. Recpt 10	.0	.0	.0	.0	.0	.1	.1	.2
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.2
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.2	.0	.1	.1	.0
15. Recpt 15	.0	.0	.0	.1	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.2	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.2	.0	.0	.0	.2
18. Recpt 18	.0	.0	.0	.3	.0	.0	.0	.2
19. Recpt 19	.0	.0	.0	.1	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Main Street & Montecito Road 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Main EBLA	*	-150	0	0	0	* AG	304	7.5	.0	10.0
B. Main EBTA	*	-150	-4	0	-4	* AG	1335	7.5	.0	10.0
C. Main EBRA	*	-150	-6	0	-6	* AG	79	7.5	.0	10.0
D. Main EBD	*	0	-4	150	-4	* AG	1548	7.5	.0	10.0
E. Main WBLA	*	150	0	0	0	* AG	35	7.5	.0	10.0
F. Main WBTA	*	150	4	0	4	* AG	1151	7.5	.0	10.0
G. Main WBRA	*	150	6	0	6	* AG	96	7.5	.0	10.0
H. Main WBD	*	0	4	-150	4	* AG	1433	7.5	.0	10.0
I. Mont NBLA	*	0	-150	0	0	* AG	63	7.5	.0	10.0
J. Mont NBTA	*	4	-150	4	0	* AG	42	7.5	.0	10.0
K. Mont NBRA	*	6	-150	6	0	* AG	73	7.5	.0	10.0
L. Mont NBD	*	4	0	4	150	* AG	442	7.5	.0	10.0
M. Mont SBLA	*	0	150	0	0	* AG	140	7.5	.0	10.0
N. Mont SBTA	*	-4	150	-4	0	* AG	31	7.5	.0	10.0
O. Mont SBRA	*	-6	150	-6	0	* AG	219	7.5	.0	10.0
P. Mont SBD	*	-4	0	-4	-150	* AG	145	7.5	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Main Street & Montecito Road 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Main Street & Montecito Road 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	287.	1.0	.1	.5	.0	.0	.0	.0	.0	.3
2. Recpt 2	11.	.7	.0	.2	.0	.0	.0	.0	.0	.1
3. Recpt 3	10.	.6	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	69.	1.0	.0	.3	.0	.2	.0	.2	.0	.0
5. Recpt 5	73.	1.0	.0	.4	.0	.1	.0	.2	.0	.1
6. Recpt 6	105.	1.1	.0	.0	.0	.4	.0	.4	.0	.0
7. Recpt 7	105.	1.1	.0	.0	.0	.4	.0	.2	.0	.3
8. Recpt 8	105.	1.1	.0	.1	.0	.3	.0	.1	.0	.4
9. Recpt 9	115.	.7	.0	.0	.0	.2	.0	.2	.0	.0
10. Recpt 10	124.	.6	.0	.0	.0	.2	.0	.2	.0	.0
11. Recpt 11	285.	1.2	.1	.5	.0	.0	.0	.0	.0	.4
12. Recpt 12	284.	1.2	.0	.3	.0	.3	.0	.0	.0	.3
13. Recpt 13	284.	1.1	.0	.2	.0	.4	.0	.1	.0	.3
14. Recpt 14	347.	.7	.0	.0	.0	.2	.0	.1	.0	.0
15. Recpt 15	349.	.5	.0	.0	.0	.1	.0	.0	.0	.0
16. Recpt 16	254.	1.2	.1	.3	.0	.0	.0	.0	.0	.5
17. Recpt 17	244.	.7	.0	.2	.0	.0	.0	.0	.0	.2
18. Recpt 18	236.	.6	.0	.2	.0	.0	.0	.0	.0	.2
19. Recpt 19	255.	1.1	.0	.3	.0	.0	.0	.1	.0	.3
20. Recpt 20	257.	1.0	.0	.3	.0	.0	.0	.2	.0	.2

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Main Street & Montecito Road 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.1	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.1	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.1	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.1	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.1	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.1	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.1	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: SR67 and Dye Road 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Dye EBLA	-150	0	0	0	AG	102	7.5	.0	10.0
B. Dye EBTA	-150	-4	0	-4	AG	18	7.5	.0	10.0
C. Dye EBRA	-150	-6	0	-6	AG	10	7.5	.0	10.0
D. Dye EBD	0	-4	150	-4	AG	188	7.5	.0	10.0
E. Dye WBLA	150	0	0	0	AG	542	7.5	.0	10.0
F. Dye WBTA	150	4	0	4	AG	61	7.5	.0	10.0
G. Dye WBRA	150	6	0	6	AG	34	7.5	.0	10.0
H. Dye WBD	0	4	-150	4	AG	165	7.5	.0	10.0
I. SR67 NBLA	0	-150	0	0	AG	4	7.5	.0	10.0
J. SR67 NBTA	4	-150	4	0	AG	637	7.5	.0	10.0
K. SR67 NBRA	6	-150	6	0	AG	120	7.5	.0	10.0
L. SR67 NBD	4	0	4	150	AG	773	7.5	.0	10.0
M. SR67 SBLA	0	150	0	0	AG	50	7.5	.0	10.0
N. SR67 SBTA	-4	150	-4	0	AG	1522	7.5	.0	10.0
O. SR67 SBRA	-6	150	-6	0	AG	100	7.5	.0	10.0
P. SR67 SBD	-4	0	-4	-150	AG	1586	7.5	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: SR67 and Dye Road 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: SR67 and Dye Road 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	78.	.6	.0	.0	.0	.0	.2	.0	.0	.0
5. Recpt 5	80.	.5	.0	.0	.0	.0	.1	.0	.0	.0
6. Recpt 6	164.	.8	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	102.	.6	.0	.0	.0	.0	.2	.0	.0	.0
8. Recpt 8	100.	.5	.0	.0	.0	.0	.1	.0	.0	.0
9. Recpt 9	164.	.9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	164.	.9	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	343.	.9	.0	.0	.0	.0	.1	.0	.0	.0
12. Recpt 12	334.	.6	.0	.0	.0	.0	.1	.0	.0	.0
13. Recpt 13	294.	.5	.0	.0	.0	.0	.2	.0	.0	.0
14. Recpt 14	344.	.9	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	346.	.8	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.9	.0	.0	.0	.0	.1	.0	.0	.0
17. Recpt 17	194.	.9	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	194.	.9	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	206.	.6	.0	.0	.0	.0	.1	.0	.0	.0
20. Recpt 20	214.	.5	.0	.0	.0	.0	.1	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: SR67 and Dye Road 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.2	.0	.6	.0	.0
2. Recpt 2	.0	.0	.0	.2	.0	.3	.0	.3
3. Recpt 3	.0	.0	.0	.2	.0	.2	.0	.5
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.2
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.1
6. Recpt 6	.0	.2	.0	.0	.0	.0	.0	.5
7. Recpt 7	.0	.0	.0	.0	.0	.2	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.1	.0	.0
9. Recpt 9	.0	.2	.0	.0	.0	.2	.0	.3
10. Recpt 10	.0	.1	.0	.0	.0	.4	.0	.2
11. Recpt 11	.0	.0	.0	.3	.0	.4	.0	.0
12. Recpt 12	.0	.0	.0	.1	.0	.2	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.1	.0	.0
14. Recpt 14	.0	.0	.0	.2	.0	.4	.0	.0
15. Recpt 15	.0	.2	.0	.1	.0	.3	.0	.0
16. Recpt 16	.0	.3	.0	.0	.0	.0	.0	.4
17. Recpt 17	.0	.2	.0	.2	.0	.0	.0	.4
18. Recpt 18	.0	.0	.0	.2	.0	.1	.0	.3
19. Recpt 19	.0	.1	.0	.0	.0	.0	.0	.2
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.2

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: A Moore and SR67 2010 am peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S             Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE            VD=   .0 CM/S
    CLAS=     7 (G)             VS=   .0 CM/S
    MIXH= 1000. M              AMB=   .0 PPM
   SIGTH=   10. DEGREES       TEMP= 18.0 DEGREE (C)


II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
----------------*-------------------------*------------------------------
A. AM EBLA      *  -150     0     0     0 *  AG     26   7.5     .0  10.0
B. AM EBRA      *  -150    -4     0    -4 *  AG    205   7.5     .0  10.0
C. AM WBD       *     0     4  -150     4 *  AG    257   7.5     .0  10.0
D. SR67 NBLA    *     0  -150     0     0 *  AG    181   7.5     .0  10.0
E. SR67 NBTA    *     4  -150     4     0 *  AG    551   7.5     .0  10.0
F. SR67 NBD     *     4     0     4   150 *  AG    577   7.5     .0  10.0
G. SR67 SBRA    *    -4   150    -4     0 *  AG     76   7.5     .0  10.0
H. SR67 SBTA    *     0   150     0     0 *  AG   1972   7.5     .0  10.0
I. SR67 SBD     *    -4     0    -4  -150 *  AG   2177   7.5     .0  10.0
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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: A Moore and SR67 2010 am peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	14	-60	1.8
2. Recpt 2	14	-40	1.8
3. Recpt 3	14	-20	1.8
4. Recpt 4	14	0	1.8
5. Recpt 5	14	20	1.8
6. Recpt 6	14	40	1.8
7. Recpt 7	14	60	1.8
8. Recpt 8	-14	-14	1.8
9. Recpt 9	-34	-14	1.8
10. Recpt 10	-54	-14	1.8
11. Recpt 11	-14	-34	1.8
12. Recpt 12	-14	-54	1.8
13. Recpt 13	-14	14	1.8
14. Recpt 14	-34	14	1.8
15. Recpt 15	-54	14	1.8
16. Recpt 16	-14	34	1.8
17. Recpt 17	-14	54	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: A Moore and SR67 2010 am peak
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	339.	.8	.0	.0	.0	.0	.2	.0	.0	.0
2. Recpt 2	201.	.8	.0	.0	.0	.0	.2	.0	.0	.0
3. Recpt 3	200.	.8	.0	.0	.0	.0	.2	.0	.0	.0
4. Recpt 4	343.	.9	.0	.0	.0	.0	.0	.3	.0	.6
5. Recpt 5	208.	.9	.0	.0	.0	.0	.0	.1	.0	.2
6. Recpt 6	199.	1.0	.0	.0	.0	.0	.0	.2	.0	.3
7. Recpt 7	196.	1.0	.0	.0	.0	.0	.0	.2	.0	.4
8. Recpt 8	164.	1.0	.0	.0	.0	.0	.2	.0	.0	.0
9. Recpt 9	25.	.5	.0	.0	.0	.0	.0	.1	.0	.3
10. Recpt 10	34.	.4	.0	.0	.0	.0	.0	.0	.0	.2
11. Recpt 11	19.	1.1	.0	.0	.0	.0	.0	.1	.0	.4
12. Recpt 12	15.	1.1	.0	.0	.0	.0	.0	.1	.0	.3
13. Recpt 13	166.	1.1	.0	.0	.0	.0	.2	.0	.0	.0
14. Recpt 14	155.	.6	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	150.	.5	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	169.	.9	.0	.0	.0	.0	.2	.0	.0	.0
17. Recpt 17	169.	.8	.0	.0	.0	.0	.1	.0	.0	.2

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   4

     JOB: A Moore and SR67 2010 am peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
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IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	(PPM) I
1. Recpt 1	.4
2. Recpt 2	.5
3. Recpt 3	.5
4. Recpt 4	.0
5. Recpt 5	.4
6. Recpt 6	.4
7. Recpt 7	.3
8. Recpt 8	.8
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.5
12. Recpt 12	.6
13. Recpt 13	.8
14. Recpt 14	.3
15. Recpt 15	.2
16. Recpt 16	.5
17. Recpt 17	.3

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: A Moore and SR67 2010 pm peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S             Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE            VD=   .0 CM/S
    CLAS=     7 (G)             VS=   .0 CM/S
    MIXH= 1000. M              AMB=   .0 PPM
   SIGTH=   10. DEGREES       TEMP= 18.0 DEGREE (C)


II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*------------------------------
A. AM EBLA     *  -150     0     0     0 *  AG     43   7.5     .0  10.0
B. AM EBRA     *  -150    -4     0    -4 *  AG     84   7.5     .0  10.0
C. AM WBD      *     0     4  -150     4 *  AG    521   7.5     .0  10.0
D. SR67 NBLA   *     0  -150     0     0 *  AG    455   7.5     .0  10.0
E. SR67 NBTA   *     4  -150     4     0 *  AG   1861   7.5     .0  10.0
F. SR67 NBD    *     4     0     4   150 *  AG   1904   7.5     .0  10.0
G. SR67 SBRA   *    -4   150    -4     0 *  AG     66   7.5     .0  10.0
H. SR67 SBTA   *     0   150     0     0 *  AG    761   7.5     .0  10.0
I. SR67 SBD    *    -4     0    -4  -150 *  AG    845   7.5     .0  10.0
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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: A Moore and SR67 2010 pm peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	14	-60	1.8
2. Recpt 2	14	-40	1.8
3. Recpt 3	14	-20	1.8
4. Recpt 4	14	0	1.8
5. Recpt 5	14	20	1.8
6. Recpt 6	14	40	1.8
7. Recpt 7	14	60	1.8
8. Recpt 8	-14	-14	1.8
9. Recpt 9	-34	-14	1.8
10. Recpt 10	-54	-14	1.8
11. Recpt 11	-14	-34	1.8
12. Recpt 12	-14	-54	1.8
13. Recpt 13	-14	14	1.8
14. Recpt 14	-34	14	1.8
15. Recpt 15	-54	14	1.8
16. Recpt 16	-14	34	1.8
17. Recpt 17	-14	54	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: A Moore and SR67 2010 pm peak
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	344.	1.1	.0	.0	.0	.1	.6	.1	.0	.0
2. Recpt 2	199.	1.1	.0	.0	.0	.2	.7	.0	.0	.0
3. Recpt 3	197.	1.1	.0	.0	.0	.2	.7	.0	.0	.0
4. Recpt 4	196.	1.1	.0	.0	.0	.2	.7	.0	.0	.0
5. Recpt 5	196.	1.1	.0	.0	.0	.2	.6	.2	.0	.0
6. Recpt 6	195.	1.2	.0	.0	.0	.1	.3	.4	.0	.0
7. Recpt 7	193.	1.2	.0	.0	.0	.0	.2	.5	.0	.1
8. Recpt 8	163.	1.0	.0	.0	.0	.2	.4	.0	.0	.0
9. Recpt 9	26.	.6	.0	.0	.1	.0	.0	.3	.0	.1
10. Recpt 10	34.	.5	.0	.0	.1	.0	.0	.2	.0	.1
11. Recpt 11	17.	1.0	.0	.0	.0	.0	.0	.4	.0	.2
12. Recpt 12	15.	1.0	.0	.0	.0	.0	.2	.3	.0	.1
13. Recpt 13	165.	1.1	.0	.0	.1	.2	.5	.0	.0	.0
14. Recpt 14	154.	.7	.0	.0	.1	.0	.3	.0	.0	.0
15. Recpt 15	146.	.6	.0	.0	.1	.0	.2	.0	.0	.0
16. Recpt 16	167.	1.0	.0	.0	.0	.1	.4	.0	.0	.0
17. Recpt 17	168.	.9	.0	.0	.0	.1	.3	.1	.0	.1

```
CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   4

     JOB: A Moore and SR67 2010 pm peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	(PPM) I
1. Recpt 1	.1
2. Recpt 2	.2
3. Recpt 3	.2
4. Recpt 4	.2
5. Recpt 5	.2
6. Recpt 6	.2
7. Recpt 7	.2
8. Recpt 8	.4
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.2
12. Recpt 12	.3
13. Recpt 13	.3
14. Recpt 14	.2
15. Recpt 15	.1
16. Recpt 16	.2
17. Recpt 17	.2

```
CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Ash Street & Pine Street 2030 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Ash EBLA	*	-150	0	0	0	* AG	28	2.2	.0	10.0
B. Ash EBTA	*	-150	-4	0	-4	* AG	18	2.2	.0	10.0
C. Ash EBRA	*	-150	-6	0	-6	* AG	113	2.2	.0	10.0
D. Ash EBD	*	0	-4	150	-4	* AG	64	2.2	.0	10.0
E. Ash WBLA	*	150	0	0	0	* AG	6	2.2	.0	10.0
F. Ash WBTA	*	150	4	0	4	* AG	34	2.2	.0	10.0
G. Ash WBRA	*	150	6	0	6	* AG	9	2.2	.0	10.0
H. Ash WBD	*	0	4	-150	4	* AG	246	2.2	.0	10.0
I. Pine NBLA	*	0	-150	0	0	* AG	150	2.2	.0	10.0
J. Pine NBTA	*	4	-150	4	0	* AG	896	2.2	.0	10.0
K. Pine NBRA	*	6	-150	6	0	* AG	23	2.2	.0	10.0
L. Pine NBD	*	4	0	4	150	* AG	933	2.2	.0	10.0
M. Pine SBLA	*	0	150	0	0	* AG	23	2.2	.0	10.0
N. Pine SBTA	*	-4	150	-4	0	* AG	813	2.2	.0	10.0
O. Pine SBRA	*	-6	150	-6	0	* AG	62	2.2	.0	10.0
P. Pine SBD	*	-4	0	-4	-150	* AG	932	2.2	.0	10.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 2

JOB: Ash Street & Pine Street 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Ash Street & Pine Street 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.2	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	.2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	.2	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	23.	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	34.	.1	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	154.	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	146.	.1	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	165.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	167.	.2	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	197.	.2	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	281.	.1	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	279.	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	344.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	344.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	194.	.2	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	193.	.2	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.1	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	260.	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Ash Street & Pine Street 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.1
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.1	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

```
CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Ash Street & Pine Street 2030 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S             Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE            VD=   .0 CM/S
    CLAS=     7 (G)             VS=   .0 CM/S
    MIXH= 1000. M              AMB=   .0 PPM
   SIGTH=   10. DEGREES       TEMP= 18.0 DEGREE (C)


II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
----------------*-------------------------*------------------------------
A. Ash EBLA     *  -150     0     0     0 *  AG     17   2.2     .0  10.0
B. Ash EBTA     *  -150    -4     0    -4 *  AG     27   2.2     .0  10.0
C. Ash EBRA     *  -150    -6     0    -6 *  AG    100   2.2     .0  10.0
D. Ash EBD      *     0    -4   150    -4 *  AG    130   2.2     .0  10.0
E. Ash WBLA     *   150     0     0     0 *  AG      9   2.2     .0  10.0
F. Ash WBTA     *   150     4     0     4 *  AG     20   2.2     .0  10.0
G. Ash WBRA     *   150     6     0     6 *  AG      3   2.2     .0  10.0
H. Ash WBD      *     0     4  -150     4 *  AG    359   2.2     .0  10.0
I. Pine NBLA    *     0  -150     0     0 *  AG    210   2.2     .0  10.0
J. Pine NBTA    *     4  -150     4     0 *  AG    679   2.2     .0  10.0
K. Pine NBRA    *     6  -150     6     0 *  AG     46   2.2     .0  10.0
L. Pine NBD     *     4     0     4   150 *  AG    699   2.2     .0  10.0
M. Pine SBLA    *     0   150     0     0 *  AG     57   2.2     .0  10.0
N. Pine SBTA    *    -4   150    -4     0 *  AG   1182   2.2     .0  10.0
O. Pine SBRA    *    -6   150    -6     0 *  AG    129   2.2     .0  10.0
P. Pine SBD     *    -4     0    -4  -150 *  AG   1291   2.2     .0  10.0
```

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Ash Street & Pine Street 2030 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Ash Street & Pine Street 2030 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.3	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	.3	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	13.	.3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	23.	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	30.	.1	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.3	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	154.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	146.	.1	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	165.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	167.	.2	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	197.	.2	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	282.	.1	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	280.	.1	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	343.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	344.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	194.	.2	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	194.	.2	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.1	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	261.	.1	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Ash Street & Pine Street 2030 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.1	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.1
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.1
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

```
CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Pine Street & Olive Street 2030 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM            ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Olive EBLA	*	-150	0	0	0	* AG	13	2.2	.0	10.0
B. Olive EBTA	*	-150	-4	0	-4	* AG	2	2.2	.0	10.0
C. Olive EBRA	*	-150	-6	0	-6	* AG	12	2.2	.0	10.0
D. Olive EBD	*	0	-4	150	-4	* AG	32	2.2	.0	10.0
E. Olive WBLA	*	150	0	0	0	* AG	5	2.2	.0	10.0
F. Olive WBTA	*	150	4	0	4	* AG	2	2.2	.0	10.0
G. Olive WBRA	*	150	6	0	6	* AG	18	2.2	.0	10.0
H. Olive WBD	*	0	4	-150	4	* AG	19	2.2	.0	10.0
I. Pine NBLA	*	0	-150	0	0	* AG	9	2.2	.0	10.0
J. Pine NBTA	*	4	-150	4	0	* AG	1047	2.2	.0	10.0
K. Pine NBRA	*	6	-150	6	0	* AG	4	2.2	.0	10.0
L. Pine NBD	*	4	0	4	150	* AG	1077	2.2	.0	10.0
M. Pine SBLA	*	0	150	0	0	* AG	26	2.2	.0	10.0
N. Pine SBTA	*	-4	150	-4	0	* AG	817	2.2	.0	10.0
O. Pine SBRA	*	-6	150	-6	0	* AG	8	2.2	.0	10.0
P. Pine SBD	*	-4	0	-4	-150	* AG	835	2.2	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Pine Street & Olive Street 2030 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine Street & Olive Street 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.2	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	.2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	.2	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	23.	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	34.	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	154.	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	146.	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	164.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	165.	.2	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	344.	.2	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	334.	.1	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	326.	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	345.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	194.	.2	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	194.	.2	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.1	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	210.	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Pine Street & Olive Street 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.1	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.1	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

```
CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Pine Street & Olive Street 2030 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM            ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Olive EBLA	-150	0	0	0	AG	11	2.2	.0	10.0
B. Olive EBTA	-150	-4	0	-4	AG	2	2.2	.0	10.0
C. Olive EBRA	-150	-6	0	-6	AG	10	2.2	.0	10.0
D. Olive EBD	0	-4	150	-4	AG	32	2.2	.0	10.0
E. Olive WBLA	150	0	0	0	AG	5	2.2	.0	10.0
F. Olive WBTA	150	4	0	4	AG	2	2.2	.0	10.0
G. Olive WBRA	150	6	0	6	AG	29	2.2	.0	10.0
H. Olive WBD	0	4	-150	4	AG	32	2.2	.0	10.0
I. Pine NBLA	0	-150	0	0	AG	15	2.2	.0	10.0
J. Pine NBTA	4	-150	4	0	AG	816	2.2	.0	10.0
K. Pine NBRA	6	-150	6	0	AG	13	2.2	.0	10.0
L. Pine NBD	4	0	4	150	AG	855	2.2	.0	10.0
M. Pine SBLA	0	150	0	0	AG	17	2.2	.0	10.0
N. Pine SBTA	-4	150	-4	0	AG	1162	2.2	.0	10.0
O. Pine SBRA	-6	150	-6	0	AG	15	2.2	.0	10.0
P. Pine SBD	-4	0	-4	-150	AG	1178	2.2	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Pine Street & Olive Street 2030 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine Street & Olive Street 2030 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.2	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	.2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	.2	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	23.	.1	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	30.	.0	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.2	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	154.	.1	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	146.	.0	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	164.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	165.	.2	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	344.	.2	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	334.	.1	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	326.	.0	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	344.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.2	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	195.	.2	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	194.	.2	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.1	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	214.	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Pine Street & Olive Street 2030 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.1	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.1
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.1
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Pine Street & Main Street 2030 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S             Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE            VD=   .0 CM/S
    CLAS=     7 (G)             VS=   .0 CM/S
    MIXH= 1000. M              AMB=   .0 PPM
   SIGTH=   10. DEGREES       TEMP= 18.0 DEGREE (C)


II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. Main EBLA   *  -150     0     0     0 *  AG    335   2.2     .0  10.0
B. Main EBTA   *  -150    -4     0    -4 *  AG    673   2.2     .0  10.0
C. Main EBRA   *  -150    -6     0    -6 *  AG    174   2.2     .0  10.0
D. Main EBD    *     0    -4   150    -4 *  AG    878   2.2     .0  10.0
E. Main WBLA   *   150     0     0     0 *  AG    177   2.2     .0  10.0
F. Main WBTA   *   150     4     0     4 *  AG    751   2.2     .0  10.0
G. Main WBRA   *   150     6     0     6 *  AG    134   2.2     .0  10.0
H. Main WBD    *     0     4  -150     4 *  AG   1226   2.2     .0  10.0
I. Pine NBLA   *     0  -150     0     0 *  AG    193   2.2     .0  10.0
J. Pine NBTA   *     4  -150     4     0 *  AG    327   2.2     .0  10.0
K. Pine NBRA   *     6  -150     6     0 *  AG     98   2.2     .0  10.0
L. Pine NBD    *     4     0     4   150 *  AG    796   2.2     .0  10.0
M. Pine SBLA   *     0   150     0     0 *  AG    107   2.2     .0  10.0
N. Pine SBTA   *    -4   150    -4     0 *  AG    288   2.2     .0  10.0
O. Pine SBRA   *    -6   150    -6     0 *  AG    282   2.2     .0  10.0
P. Pine SBD    *    -4     0    -4  -150 *  AG    639   2.2     .0  10.0
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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Pine Street & Main Street 2030 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine Street & Main Street 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.3	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	12.	.3	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	11.	.2	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	74.	.3	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	74.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	105.	.3	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	106.	.3	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	105.	.3	.0	.0	.0	.0	.0	.0	.0	.1
9. Recpt 9	165.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	166.	.2	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	285.	.3	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	284.	.3	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	282.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	347.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	346.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	254.	.3	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	200.	.2	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	196.	.2	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	256.	.3	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	257.	.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Pine Street & Main Street 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Pine Street & Main Street 2030 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Main EBLA	-150	0	0	0	AG	363	2.2	.0	10.0
B. Main EBTA	-150	-4	0	-4	AG	1287	2.2	.0	10.0
C. Main EBRA	-150	-6	0	-6	AG	359	2.2	.0	10.0
D. Main EBD	0	-4	150	-4	AG	1599	2.2	.0	10.0
E. Main WBLA	150	0	0	0	AG	196	2.2	.0	10.0
F. Main WBTA	150	4	0	4	AG	778	2.2	.0	10.0
G. Main WBRA	150	6	0	6	AG	153	2.2	.0	10.0
H. Main WBD	0	4	-150	4	AG	1339	2.2	.0	10.0
I. Pine NBLA	0	-150	0	0	AG	178	2.2	.0	10.0
J. Pine NBTA	4	-150	4	0	AG	255	2.2	.0	10.0
K. Pine NBRA	6	-150	6	0	AG	156	2.2	.0	10.0
L. Pine NBD	4	0	4	150	AG	771	2.2	.0	10.0
M. Pine SBLA	0	150	0	0	AG	156	2.2	.0	10.0
N. Pine SBTA	-4	150	-4	0	AG	445	2.2	.0	10.0
O. Pine SBRA	-6	150	-6	0	AG	383	2.2	.0	10.0
P. Pine SBD	-4	0	-4	-150	AG	1000	2.2	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Pine Street & Main Street 2030 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine Street & Main Street 2030 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.4	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	12.	.3	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	11.	.3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	69.	.3	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	73.	.4	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	106.	.4	.0	.0	.0	.1	.0	.0	.0	.0
7. Recpt 7	110.	.4	.0	.0	.0	.0	.0	.0	.0	.1
8. Recpt 8	106.	.4	.0	.0	.0	.0	.0	.0	.0	.1
9. Recpt 9	166.	.3	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	167.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	285.	.4	.0	.1	.0	.0	.0	.0	.0	.1
12. Recpt 12	283.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	282.	.4	.0	.0	.0	.1	.0	.0	.0	.0
14. Recpt 14	344.	.3	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.3	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	253.	.4	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	200.	.3	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	196.	.3	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	255.	.4	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	257.	.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Pine Street & Main Street 2030 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

```
CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Main Street & Montecito Road 2030 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Main EBLA	-150	0	0	0	AG	223	2.2	.0	10.0
B. Main EBTA	-150	-4	0	-4	AG	763	2.2	.0	10.0
C. Main EBRA	-150	-6	0	-6	AG	45	2.2	.0	10.0
D. Main EBD	0	-4	150	-4	AG	994	2.2	.0	10.0
E. Main WBLA	150	0	0	0	AG	12	2.2	.0	10.0
F. Main WBTA	150	4	0	4	AG	1181	2.2	.0	10.0
G. Main WBRA	150	6	0	6	AG	121	2.2	.0	10.0
H. Main WBD	0	4	-150	4	AG	1476	2.2	.0	10.0
I. Mont NBLA	0	-150	0	0	AG	21	2.2	.0	10.0
J. Mont NBTA	4	-150	4	0	AG	8	2.2	.0	10.0
K. Mont NBRA	6	-150	6	0	AG	33	2.2	.0	10.0
L. Mont NBD	4	0	4	150	AG	352	2.2	.0	10.0
M. Mont SBLA	0	150	0	0	AG	198	2.2	.0	10.0
N. Mont SBTA	-4	150	-4	0	AG	17	2.2	.0	10.0
O. Mont SBRA	-6	150	-6	0	AG	274	2.2	.0	10.0
P. Mont SBD	-4	0	-4	-150	AG	74	2.2	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Main Street & Montecito Road 2030 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Main Street & Montecito Road 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	13.	.2	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	10.	.2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	9.	.1	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	69.	.2	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	73.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	105.	.3	.0	.0	.0	.0	.0	.1	.0	.0
7. Recpt 7	104.	.3	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	103.	.3	.0	.0	.0	.0	.0	.0	.0	.1
9. Recpt 9	115.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	124.	.1	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	285.	.3	.0	.0	.0	.0	.0	.0	.0	.1
12. Recpt 12	285.	.3	.0	.0	.0	.0	.0	.0	.0	.1
13. Recpt 13	285.	.3	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	348.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	350.	.1	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	254.	.3	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	244.	.2	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	236.	.2	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	256.	.3	.0	.0	.0	.0	.0	.0	.0	.1
20. Recpt 20	257.	.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Main Street & Montecito Road 2030 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: Main Street & Montecito Road 2030 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Main EBLA	*	-150	0	0	0	* AG	315	2.2	.0	10.0
B. Main EBTA	*	-150	-4	0	-4	* AG	1238	2.2	.0	10.0
C. Main EBRA	*	-150	-6	0	-6	* AG	119	2.2	.0	10.0
D. Main EBD	*	0	-4	150	-4	* AG	1457	2.2	.0	10.0
E. Main WBLA	*	150	0	0	0	* AG	53	2.2	.0	10.0
F. Main WBTA	*	150	4	0	4	* AG	1180	2.2	.0	10.0
G. Main WBRA	*	150	6	0	6	* AG	102	2.2	.0	10.0
H. Main WBD	*	0	4	-150	4	* AG	1470	2.2	.0	10.0
I. Mont NBLA	*	0	-150	0	0	* AG	65	2.2	.0	10.0
J. Mont NBTA	*	4	-150	4	0	* AG	45	2.2	.0	10.0
K. Mont NBRA	*	6	-150	6	0	* AG	75	2.2	.0	10.0
L. Mont NBD	*	4	0	4	150	* AG	462	2.2	.0	10.0
M. Mont SBLA	*	0	150	0	0	* AG	144	2.2	.0	10.0
N. Mont SBTA	*	-4	150	-4	0	* AG	47	2.2	.0	10.0
O. Mont SBRA	*	-6	150	-6	0	* AG	225	2.2	.0	10.0
P. Mont SBD	*	-4	0	-4	-150	* AG	219	2.2	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: Main Street & Montecito Road 2030 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Main Street & Montecito Road 2030 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	287.	.3	.0	.1	.0	.0	.0	.0	.0	.1
2. Recpt 2	11.	.2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	10.	.2	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	69.	.3	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	73.	.3	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	105.	.3	.0	.0	.0	.1	.0	.1	.0	.0
7. Recpt 7	105.	.3	.0	.0	.0	.1	.0	.0	.0	.0
8. Recpt 8	105.	.3	.0	.0	.0	.0	.0	.0	.0	.1
9. Recpt 9	115.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	124.	.2	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	285.	.3	.0	.1	.0	.0	.0	.0	.0	.1
12. Recpt 12	284.	.3	.0	.0	.0	.0	.0	.0	.0	.1
13. Recpt 13	284.	.3	.0	.0	.0	.1	.0	.0	.0	.0
14. Recpt 14	347.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	349.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	253.	.3	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	244.	.2	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	236.	.2	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	255.	.3	.0	.0	.0	.0	.0	.0	.0	.1
20. Recpt 20	257.	.3	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: Main Street & Montecito Road 2030 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: SR67 and Dye Road 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S             Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE            VD=   .0 CM/S
    CLAS=     7 (G)             VS=   .0 CM/S
    MIXH= 1000. M              AMB=   .0 PPM
   SIGTH=   10. DEGREES       TEMP= 18.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
----------------*-------------------------*-----------------------------
A. Dye EBLA     *  -150     0     0     0 *  AG     95   2.2     .0  10.0
B. Dye EBTA     *  -150    -4     0    -4 *  AG     26   2.2     .0  10.0
C. Dye EBRA     *  -150    -6     0    -6 *  AG     10   2.2     .0  10.0
D. Dye EBD      *     0    -4   150    -4 *  AG    234   2.2     .0  10.0
E. Dye WBLA     *   150     0     0     0 *  AG    549   2.2     .0  10.0
F. Dye WBTA     *   150     4     0     4 *  AG     78   2.2     .0  10.0
G. Dye WBRA     *   150     6     0     6 *  AG     44   2.2     .0  10.0
H. Dye WBD      *     0     4  -150     4 *  AG    222   2.2     .0  10.0
I. SR67 NBLA    *     0  -150     0     0 *  AG     36   2.2     .0  10.0
J. SR67 NBTA    *     4  -150     4     0 *  AG    611   2.2     .0  10.0
K. SR67 NBRA    *     6  -150     6     0 *  AG    157   2.2     .0  10.0
L. SR67 NBD     *     4     0     4   150 *  AG    750   2.2     .0  10.0
M. SR67 SBLA    *     0   150     0     0 *  AG     51   2.2     .0  10.0
N. SR67 SBTA    *    -4   150    -4     0 *  AG   1251   2.2     .0  10.0
O. SR67 SBRA    *    -6   150    -6     0 *  AG    108   2.2     .0  10.0
P. SR67 SBD     *    -4     0    -4  -150 *  AG   1810   2.2     .0  10.0
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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: SR67 and Dye Road 2010 am
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: SR67 and Dye Road 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	164.	.3	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	20.	.3	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	16.	.3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	78.	.2	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	80.	.2	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	164.	.3	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	102.	.2	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	100.	.2	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	165.	.3	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	166.	.3	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	343.	.3	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	334.	.2	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	292.	.2	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	344.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	195.	.3	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	194.	.3	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	192.	.3	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	206.	.2	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	214.	.2	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: SR67 and Dye Road 2010 am
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.2
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.1
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.2
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.2
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.1
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	.0	.0	.0	.0	.0	.0	.0	.1
17. Recpt 17	.0	.0	.0	.0	.0	.0	.0	.1
18. Recpt 18	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	.0	.0	.0	.0	.0	.0	.0	.0
20. Recpt 20	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: SR67 and Dye Road 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

I. SITE VARIABLES

```
      U=   1.0 M/S            Z0= 100. CM           ALT=     0. (M)
    BRG= WORST CASE           VD=   .0 CM/S
   CLAS=     7 (G)            VS=   .0 CM/S
   MIXH= 1000. M             AMB=   .0 PPM
  SIGTH=   10. DEGREES      TEMP= 18.0 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	*	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Dye EBLA	*	-150	0	0	0	*	AG	226	7.5	.0	10.0
B. Dye EBTA	*	-150	-4	0	-4	*	AG	116	7.5	.0	10.0
C. Dye EBRA	*	-150	-6	0	-6	*	AG	14	7.5	.0	10.0
D. Dye EBD	*	0	-4	150	-4	*	AG	572	7.5	.0	10.0
E. Dye WBLA	*	150	0	0	0	*	AG	77	7.5	.0	10.0
F. Dye WBTA	*	150	4	0	4	*	AG	18	7.5	.0	10.0
G. Dye WBRA	*	150	6	0	6	*	AG	37	7.5	.0	10.0
H. Dye WBD	*	0	4	-150	4	*	AG	141	7.5	.0	10.0
I. SR67 NBLA	*	0	-150	0	0	*	AG	9	7.5	.0	10.0
J. SR67 NBTA	*	4	-150	4	0	*	AG	1082	7.5	.0	10.0
K. SR67 NBRA	*	6	-150	6	0	*	AG	361	7.5	.0	10.0
L. SR67 NBD	*	4	0	4	150	*	AG	1345	7.5	.0	10.0
M. SR67 SBLA	*	0	150	0	0	*	AG	95	7.5	.0	10.0
N. SR67 SBTA	*	-4	150	-4	0	*	AG	801	7.5	.0	10.0
O. SR67 SBRA	*	-6	150	-6	0	*	AG	114	7.5	.0	10.0
P. SR67 SBD	*	-4	0	-4	-150	*	AG	892	7.5	.0	10.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: SR67 and Dye Road 2010 pm
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	-14	-16	1.8
2. Recpt 2	-14	-36	1.8
3. Recpt 3	-14	-56	1.8
4. Recpt 4	-34	-16	1.8
5. Recpt 5	-54	-16	1.8
6. Recpt 6	-16	14	1.8
7. Recpt 7	-36	14	1.8
8. Recpt 8	-56	14	1.8
9. Recpt 9	-16	34	1.8
10. Recpt 10	-16	54	1.8
11. Recpt 11	16	-14	1.8
12. Recpt 12	36	-14	1.8
13. Recpt 13	56	-14	1.8
14. Recpt 14	16	-34	1.8
15. Recpt 15	16	-54	1.8
16. Recpt 16	14	16	1.8
17. Recpt 17	14	36	1.8
18. Recpt 18	14	56	1.8
19. Recpt 19	34	16	1.8
20. Recpt 20	54	16	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: SR67 and Dye Road 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	15.	.9	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	14.	.9	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	14.	.9	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	79.	.6	.0	.0	.0	.2	.0	.0	.0	.0
5. Recpt 5	80.	.5	.0	.0	.0	.1	.0	.0	.0	.0
6. Recpt 6	163.	.8	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	106.	.6	.0	.0	.0	.2	.0	.0	.0	.0
8. Recpt 8	102.	.5	.0	.0	.0	.1	.0	.0	.0	.0
9. Recpt 9	164.	.8	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	165.	.9	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	343.	1.0	.0	.0	.0	.1	.0	.0	.0	.0
12. Recpt 12	290.	.6	.0	.0	.0	.2	.0	.0	.0	.0
13. Recpt 13	285.	.6	.0	.0	.0	.2	.0	.0	.0	.0
14. Recpt 14	344.	.9	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	345.	.9	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	194.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	192.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
18. Recpt 18	192.	.9	.0	.0	.0	.0	.0	.0	.0	.0
19. Recpt 19	203.	.6	.0	.0	.0	.1	.0	.0	.0	.0
20. Recpt 20	210.	.5	.0	.0	.0	.1	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 4

JOB: SR67 and Dye Road 2010 pm
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.4	.0	.3	.0	.0
2. Recpt 2	.0	.0	.0	.3	.0	.2	.0	.2
3. Recpt 3	.0	.1	.0	.2	.0	.1	.0	.3
4. Recpt 4	.0	.1	.0	.0	.0	.0	.0	.1
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.3	.1	.0	.0	.0	.0	.3
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.3	.1	.0	.0	.1	.0	.2
10. Recpt 10	.0	.2	.0	.0	.0	.2	.0	.1
11. Recpt 11	.0	.0	.0	.5	.0	.2	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.2	.0	.3	.0	.2	.0	.0
15. Recpt 15	.0	.3	.1	.2	.0	.2	.0	.0
16. Recpt 16	.0	.4	.2	.0	.0	.0	.0	.3
17. Recpt 17	.0	.3	.1	.2	.0	.0	.0	.2
18. Recpt 18	.0	.2	.0	.4	.0	.0	.0	.2
19. Recpt 19	.0	.2	.0	.0	.0	.0	.0	.2
20. Recpt 20	.0	.1	.0	.0	.0	.0	.0	.1

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: A Moore and SR67 2030 am peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S             Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE            VD=   .0 CM/S
    CLAS=     7 (G)             VS=   .0 CM/S
    MIXH= 1000. M              AMB=   .0 PPM
   SIGTH=   10. DEGREES       TEMP= 18.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
----------------*-------------------------*------------------------------
A. AM EBLA      *  -150     0     0     0 *  AG     29   2.2     .0  10.0
B. AM EBRA      *  -150    -4     0    -4 *  AG    229   2.2     .0  10.0
C. AM WBD       *     0     4  -150     4 *  AG    464   2.2     .0  10.0
D. SR67 NBLA    *     0  -150     0     0 *  AG    250   2.2     .0  10.0
E. SR67 NBTA    *     4  -150     4     0 *  AG    542   2.2     .0  10.0
F. SR67 NBD     *     4     0     4   150 *  AG    571   2.2     .0  10.0
G. SR67 SBRA    *    -4   150    -4     0 *  AG    214   2.2     .0  10.0
H. SR67 SBTA    *     0   150     0     0 *  AG   2162   2.2     .0  10.0
I. SR67 SBD     *    -4     0    -4  -150 *  AG   2391   2.2     .0  10.0
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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: A Moore and SR67 2030 am peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	14	-60	1.8
2. Recpt 2	14	-40	1.8
3. Recpt 3	14	-20	1.8
4. Recpt 4	14	0	1.8
5. Recpt 5	14	20	1.8
6. Recpt 6	14	40	1.8
7. Recpt 7	14	60	1.8
8. Recpt 8	-14	-14	1.8
9. Recpt 9	-34	-14	1.8
10. Recpt 10	-54	-14	1.8
11. Recpt 11	-14	-34	1.8
12. Recpt 12	-14	-54	1.8
13. Recpt 13	-14	14	1.8
14. Recpt 14	-34	14	1.8
15. Recpt 15	-54	14	1.8
16. Recpt 16	-14	34	1.8
17. Recpt 17	-14	54	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: A Moore and SR67 2030 am peak
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	339.	.3	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	201.	.3	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	345.	.3	.0	.0	.0	.0	.0	.0	.0	.2
4. Recpt 4	343.	.3	.0	.0	.0	.0	.0	.0	.0	.2
5. Recpt 5	218.	.3	.0	.0	.0	.0	.0	.0	.0	.1
6. Recpt 6	200.	.3	.0	.0	.0	.0	.0	.0	.0	.1
7. Recpt 7	196.	.3	.0	.0	.0	.0	.0	.0	.0	.1
8. Recpt 8	26.	.3	.0	.0	.0	.0	.0	.0	.0	.2
9. Recpt 9	25.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	34.	.2	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	18.	.4	.0	.0	.0	.0	.0	.0	.0	.1
12. Recpt 12	15.	.4	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	166.	.4	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	155.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	146.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	169.	.3	.0	.0	.0	.0	.0	.0	.0	.0
17. Recpt 17	168.	.3	.0	.0	.0	.0	.0	.0	.0	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   4

     JOB: A Moore and SR67 2030 am peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	(PPM) I
1. Recpt 1	.1
2. Recpt 2	.2
3. Recpt 3	.0
4. Recpt 4	.0
5. Recpt 5	.0
6. Recpt 6	.1
7. Recpt 7	.0
8. Recpt 8	.0
9. Recpt 9	.0
10. Recpt 10	.0
11. Recpt 11	.2
12. Recpt 12	.2
13. Recpt 13	.2
14. Recpt 14	.1
15. Recpt 15	.0
16. Recpt 16	.2
17. Recpt 17	.0

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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   1

     JOB: A Moore and SR67 2030 pm peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


 I.  SITE VARIABLES

       U=   1.0 M/S             Z0= 100. CM            ALT=     0. (M)
     BRG= WORST CASE            VD=   .0 CM/S
    CLAS=     7 (G)             VS=   .0 CM/S
    MIXH= 1000. M              AMB=   .0 PPM
   SIGTH=   10. DEGREES       TEMP= 18.0 DEGREE (C)


II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
----------------*-------------------------*------------------------------
A. AM EBLA      *  -150     0     0     0 *  AG     40   2.2     .0  10.0
B. AM EBRA      *  -150    -4     0    -4 *  AG     94   2.2     .0  10.0
C. AM WBD       *     0     4  -150     4 *  AG    687   2.2     .0  10.0
D. SR67 NBLA    *     0  -150     0     0 *  AG    495   2.2     .0  10.0
E. SR67 NBTA    *     4  -150     4     0 *  AG   1786   2.2     .0  10.0
F. SR67 NBD     *     4     0     4   150 *  AG   1826   2.2     .0  10.0
G. SR67 SBRA    *    -4   150    -4     0 *  AG    192   2.2     .0  10.0
H. SR67 SBTA    *     0   150     0     0 *  AG    831   2.2     .0  10.0
I. SR67 SBD     *    -4     0    -4  -150 *  AG    925   2.2     .0  10.0
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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   2

     JOB: A Moore and SR67 2030 pm peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	14	-60	1.8
2. Recpt 2	14	-40	1.8
3. Recpt 3	14	-20	1.8
4. Recpt 4	14	0	1.8
5. Recpt 5	14	20	1.8
6. Recpt 6	14	40	1.8
7. Recpt 7	14	60	1.8
8. Recpt 8	-14	-14	1.8
9. Recpt 9	-34	-14	1.8
10. Recpt 10	-54	-14	1.8
11. Recpt 11	-14	-34	1.8
12. Recpt 12	-14	-54	1.8
13. Recpt 13	-14	14	1.8
14. Recpt 14	-34	14	1.8
15. Recpt 15	-54	14	1.8
16. Recpt 16	-14	34	1.8
17. Recpt 17	-14	54	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: A Moore and SR67 2030 pm peak
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. Recpt 1	344.	.3	.0	.0	.0	.0	.2	.0	.0	.0
2. Recpt 2	199.	.3	.0	.0	.0	.0	.2	.0	.0	.0
3. Recpt 3	197.	.3	.0	.0	.0	.0	.2	.0	.0	.0
4. Recpt 4	196.	.3	.0	.0	.0	.0	.2	.0	.0	.0
5. Recpt 5	196.	.3	.0	.0	.0	.0	.2	.0	.0	.0
6. Recpt 6	196.	.4	.0	.0	.0	.0	.0	.1	.0	.0
7. Recpt 7	194.	.4	.0	.0	.0	.0	.0	.2	.0	.0
8. Recpt 8	20.	.3	.0	.0	.0	.0	.0	.1	.0	.0
9. Recpt 9	26.	.2	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	34.	.2	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	16.	.3	.0	.0	.0	.0	.0	.1	.0	.0
12. Recpt 12	15.	.3	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	165.	.4	.0	.0	.0	.0	.1	.0	.0	.0
14. Recpt 14	154.	.2	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	146.	.2	.0	.0	.0	.0	.0	.0	.0	.0
16. Recpt 16	167.	.3	.0	.0	.0	.0	.1	.0	.0	.0
17. Recpt 17	168.	.3	.0	.0	.0	.0	.0	.0	.0	.0

```
CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
         JUNE 1989 VERSION
         PAGE   4

     JOB: A Moore and SR67 2030 pm peak
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide


IV.  MODEL RESULTS (WORST CASE WIND ANGLE)     (CONT.)

            *
            * (PPM)
 RECEPTOR   *   I
------------*-----
 1. Recpt 1  *   .0
 2. Recpt 2  *   .0
 3. Recpt 3  *   .0
 4. Recpt 4  *   .0
 5. Recpt 5  *   .0
 6. Recpt 6  *   .0
 7. Recpt 7  *   .0
 8. Recpt 8  *   .0
 9. Recpt 9  *   .0
10. Recpt 10 *   .0
11. Recpt 11 *   .0
12. Recpt 12 *   .0
13. Recpt 13 *   .1
14. Recpt 14 *   .0
15. Recpt 15 *   .0
16. Recpt 16 *   .0
17. Recpt 17 *   .0
```

Operational Health Risk Assessment – HARP Outputs

```
This file: C:\HARPExpress\Mranch\Rep_Can_70yr_Inh_AllRec_AllSrc_AllCh_ByRec_Site.txt

Created by HARP Version 1.0  Build 23.02.21
Uses ISC Version 99155
Uses BPIP Version 95086
Creation date: 1/19/2007 4:26:42 PM


EXCEPTION REPORT
   (there have been no changes or exceptions)

INPUT FILES:
   Source-Receptor file: C:\HARPExpress\Mranch\Mranch.mta
   Averaging period adjustment factors file: not applicable
   Emission rates file: none
   Site parameters file: C:\HARPExpress\MRanch\demo.sit



Screening mode is OFF

Exposure duration: 70 year (adult resident)
Analysis method:   80th Percentile Point Estimate (inhalation pathway only)
Health effect:     Cancer Risk
Receptor(s):       All
Sources(s):        All
Chemicals(s):      All

SITE PARAMETERS

   Inhalation only. Site parameters not applicable.

CHEMICAL CROSS-REFERENCE TABLE AND BACKGROUND CONCENTRATIONS
CHEM  CAS        ABBREVIATION    POLLUTANT NAME                                                    BACKGROUND (ug/m^3)
0001  9901       DieselExhPM     Diesel engine exhaust, particulate matter                         0.000E+00

EMISSIONS DATA SOURCE:
CHEMICALS ADDED OR DELETED: none

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK1   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *
```

```
EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK2   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK3   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK4   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK5   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK6   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK7   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK8   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK9   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK10   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK11   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
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CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK12   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK13   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK14   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK15   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK16   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK17   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK18   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK19   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK20   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *
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EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK21   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK22   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK23   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK24   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK25   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0        0.010147               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK26   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK27   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK28   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK29   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK30   STK=1   NAME=Facility 1  EMS (lbs/yr)
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```
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK31   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK32   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK33   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK34   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK35   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK36   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK37   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK38   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK39   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
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```
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK40   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK41   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK42   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK43   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK44   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK45   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

EMISSIONS FOR FACILITY FAC=Mranch   CO=*   DEV=PR1   PRO=STK46   STK=1   NAME=Facility 1  EMS (lbs/yr)
SOURCE MULTIPLIER=1
CAS             ABBREV                MULTIPLIER     BG (ug/m^3)   AVRG (lbs/yr)    MAX (lbs/hr)
9901            DieselExhPM                    1               0       0.0122275               *

CANCER RISK REPORT
REC      INHAL     DERM     SOIL   MOTHER     FISH    WATER      VEG    DAIRY     BEEF    CHICK      PIG      EGG     MEAT     ORAL    TOTAL
0001  5.57E-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.57E-09
0002  5.42E-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.42E-09
0003  5.29E-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.29E-09
0004  5.10E-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.10E-09
0005  5.05E-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.05E-09
0006  6.32E-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 6.32E-09
0007  6.06E-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 6.06E-09
0008  5.73E-09 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 5.73E-09
```

0009	5.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.49E-09
0010	5.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.21E-09
0011	7.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.22E-09
0012	6.81E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.81E-09
0013	6.78E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.78E-09
0014	6.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-09
0015	5.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.86E-09
0016	4.86E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.86E-09
0017	4.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.83E-09
0018	4.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-09
0019	4.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-09
0020	5.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.04E-09
0021	5.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.18E-09
0022	5.11E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.11E-09
0023	4.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.97E-09
0024	5.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.12E-09
0025	5.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.05E-09
0026	5.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-09
0027	5.70E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.70E-09
0028	5.76E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.76E-09
0029	5.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.72E-09
0030	5.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.61E-09
0031	5.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.48E-09
0032	5.56E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-09
0033	5.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.27E-09
0034	5.06E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.06E-09
0035	5.41E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.41E-09
0036	5.91E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.91E-09
0037	5.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.98E-09
0038	6.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-09
0039	6.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E-09
0040	6.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.49E-09
0041	6.42E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.42E-09
0042	6.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.18E-09
0043	5.94E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.94E-09
0044	6.04E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-09
0045	6.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-09
0046	6.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-09
0047	6.40E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-09
0048	7.66E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-09
0049	7.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-09
0050	7.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.23E-09
0051	7.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.16E-09
0052	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-09
0053	7.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.21E-09
0054	7.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-09
0055	7.37E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.37E-09

0056	8.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-09
0057	8.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.07E-09
0058	8.09E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-09
0059	8.12E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.12E-09
0060	8.14E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-09
0061	8.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.29E-09
0062	8.45E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-09
0063	8.60E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-09
0064	8.18E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-09
0065	8.22E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.22E-09
0066	8.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-09
0067	8.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.49E-09
0068	8.77E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.77E-09
0069	9.07E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.07E-09
0070	9.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-09
0071	9.74E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-09
0072	7.97E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.97E-09
0073	8.05E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.05E-09
0074	8.23E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.23E-09
0075	8.53E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-09
0076	8.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-09
0077	9.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.49E-09
0078	1.01E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-08
0079	1.07E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-08
0080	4.51E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.51E-09
0081	4.29E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-09
0082	4.10E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-09
0083	4.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.08E-09
0084	3.99E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.99E-09
0085	3.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.89E-09
0086	3.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.43E-09
0087	2.62E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-09
0088	2.47E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-09
0089	2.25E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-09
0090	2.16E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-09
0091	2.15E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-09
0092	4.98E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.98E-09
0093	4.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.82E-09
0094	4.67E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.67E-09
0095	4.54E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.54E-09
0096	4.43E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.43E-09
0097	4.21E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.21E-09
0098	3.72E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-09
0099	3.00E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-09
0100	2.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-09
0101	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-09
0102	2.48E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-09

0103	2.50E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-09
0104	5.59E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.59E-09
0105	5.44E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.44E-09
0106	5.28E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.28E-09
0107	5.13E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.13E-09
0108	5.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-09
0109	4.79E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.79E-09
0110	4.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-09
0111	4.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-09
0112	3.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-09
0113	3.01E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-09
0114	3.08E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-09
0115	2.95E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-09
0116	6.35E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.35E-09
0117	6.19E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-09
0118	6.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-09
0119	5.89E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.89E-09
0120	5.80E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.80E-09
0121	5.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-09
0122	5.39E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.39E-09
0123	4.68E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.68E-09
0124	3.65E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.65E-09
0125	4.27E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.27E-09
0126	4.03E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-09
0127	3.96E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-09
0128	7.38E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.38E-09
0129	7.20E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.20E-09
0130	7.02E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.02E-09
0131	6.92E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.92E-09
0132	6.83E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.83E-09

WRF Odor Assessment

SCREEN3 Output Files

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10/17/06

15:34:15
  ***  SCREEN3 MODEL RUN  ***
  *** VERSION DATED 96043 ***

 Montecito Ranch Odor Evaluation

 SIMPLE TERRAIN INPUTS:
    SOURCE TYPE                =         AREA
    EMISSION RATE (G/(S-M**2))  =      .814800E-07
    SOURCE HEIGHT (M)          =       3.0000
    LENGTH OF LARGER SIDE (M)   =      30.5000
    LENGTH OF SMALLER SIDE (M)  =      30.5000
    RECEPTOR HEIGHT (M)        =       1.8000
    URBAN/RURAL OPTION         =        RURAL
 THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
 THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

    MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION


 BUOY. FLUX =     .000 M**4/S**3;  MOM. FLUX =     .000 M**4/S**2.

 *** FULL METEOROLOGY ***

 **********************************
 *** SCREEN AUTOMATED DISTANCES ***
 **********************************

 *** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

   DIST     CONC             U10M   USTK  MIX HT   PLUME  MAX DIR
    (M)   (UG/M**3)   STAB  (M/S)  (M/S)    (M)   HT (M)   (DEG)
 -------  ----------  ----  -----  -----  ------  ------  -------
      1.   .2241        2     1.0    1.0   320.0    3.00     45.
    100.   .5114        6     1.0    1.0 10000.0    3.00     45.
    200.   .3581        6     1.0    1.0 10000.0    3.00     45.
    300.   .2483        6     1.0    1.0 10000.0    3.00     45.
    400.   .1772        6     1.0    1.0 10000.0    3.00     45.
    500.   .1317        6     1.0    1.0 10000.0    3.00     42.
    600.   .1015        6     1.0    1.0 10000.0    3.00     44.
    700.   .8070E-01    6     1.0    1.0 10000.0    3.00     38.
    800.   .6655E-01    6     1.0    1.0 10000.0    3.00     45.
    900.   .5598E-01    6     1.0    1.0 10000.0    3.00     37.
   1000.   .4785E-01    6     1.0    1.0 10000.0    3.00     45.

 MAXIMUM 1-HR CONCENTRATION AT OR BEYOND     1. M:
     50.   .6315        6     1.0    1.0 10000.0    3.00     45.

 **********************************
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```
 *** SCREEN DISCRETE DISTANCES ***
 *********************************

 *** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

   DIST     CONC             U10M   USTK  MIX HT   PLUME  MAX DIR
    (M)   (UG/M**3)   STAB  (M/S)  (M/S)    (M)   HT (M)   (DEG)
 -------  ----------  ----  -----  -----  ------  ------  -------
     91.   .5296        6     1.0    1.0 10000.0    3.00     45.

      ***************************************
      *** SUMMARY OF SCREEN MODEL RESULTS ***
      ***************************************

  CALCULATION        MAX CONC    DIST TO   TERRAIN
   PROCEDURE        (UG/M**3)    MAX (M)    HT (M)
 --------------    -----------   -------   -------
 SIMPLE TERRAIN      .6315           50.        0.


 ***************************************************
 ** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
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10/17/06

15:29:21
  ***  SCREEN3 MODEL RUN  ***
  *** VERSION DATED 96043 ***

 Montecito Ranch Toxics Evaluation

 SIMPLE TERRAIN INPUTS:
    SOURCE TYPE                =         AREA
    EMISSION RATE (G/(S-M**2))  =      1.00000
    SOURCE HEIGHT (M)          =       3.0000
    LENGTH OF LARGER SIDE (M)   =      30.5000
    LENGTH OF SMALLER SIDE (M)  =      30.5000
    RECEPTOR HEIGHT (M)        =       1.8000
    URBAN/RURAL OPTION         =        RURAL
 THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
 THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

    MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION


 BUOY. FLUX =     .000 M**4/S**3;  MOM. FLUX =     .000 M**4/S**2.

 *** FULL METEOROLOGY ***

 **********************************
 *** SCREEN AUTOMATED DISTANCES ***
 **********************************

 *** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

   DIST     CONC             U10M   USTK  MIX HT   PLUME  MAX DIR
    (M)   (UG/M**3)   STAB  (M/S)  (M/S)    (M)   HT (M)   (DEG)
 -------  ----------  ----  -----  -----  ------  ------  -------
      1.   .2750E+07    2     1.0    1.0   320.0    3.00     45.
    100.   .6277E+07    6     1.0    1.0 10000.0    3.00     45.
    200.   .4395E+07    6     1.0    1.0 10000.0    3.00     45.
    300.   .3048E+07    6     1.0    1.0 10000.0    3.00     45.
    400.   .2175E+07    6     1.0    1.0 10000.0    3.00     45.
    500.   .1616E+07    6     1.0    1.0 10000.0    3.00     42.
    600.   .1246E+07    6     1.0    1.0 10000.0    3.00     44.
    700.   .9904E+06    6     1.0    1.0 10000.0    3.00     38.
    800.   .8167E+06    6     1.0    1.0 10000.0    3.00     45.
    900.   .6871E+06    6     1.0    1.0 10000.0    3.00     37.
   1000.   .5873E+06    6     1.0    1.0 10000.0    3.00     45.

 MAXIMUM 1-HR CONCENTRATION AT OR BEYOND     1. M:
     50.   .7751E+07    6     1.0    1.0 10000.0    3.00     45.

      ***************************************
      *** SUMMARY OF SCREEN MODEL RESULTS ***
      ***************************************

  CALCULATION        MAX CONC    DIST TO   TERRAIN
```

```
  PROCEDURE        (UG/M**3)    MAX (M)    HT (M)
--------------    -----------   -------   -------
SIMPLE TERRAIN      .7751E+07       50.        0.


**************************************************
** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
**************************************************
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