Appendix B Air Quality Data

SCAQMD BACTs

Required Best Available Control Measures for Fugitive Dust (Applicable to All Construction Activity Sources)		
Source Category	**Control Measures**	**Guidance**
Backfilling	Stabilize backfill material when not actively handling; and Stabilize backfill material during handling; and Stabilize soil at completion of activity	Mix backfill soil with water prior to moving; and Dedicate water truck or high capacity hose to backfilling equipment; and Empty loader bucket slowly so that no dust plumes are generated; and Minimize drop height from loader bucket.
Clearing and grubbing	Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and Stabilize soil during clearing and grubbing activities; and Stabilize soil immediately after clearing and grubbing activities.	Maintain live perennial vegetation where possible; and Apply water in sufficient quantity to prevent generation of dust plumes.
Clearing forms	Use water spray to clear forms; or Use sweeping and water spray to clear forms; or Use vacuum system to clear forms.	Use of high pressure air to clear forms may cause exceedance of Rule requirements.
Crushing	Stabilize surface soils prior to operation of support equipment; and Stabilize material after crushing.	Follow permit conditions for crushing equipment; and Pre-water material prior to loading into crusher; and Monitor crusher emissions opacity; and Apply water to crushed material to prevent dust plumes.
Cut and fill	Pre-water soils prior to cut and fill activities; and Stabilize soil during and after cut and fill activities.	For large sites, pre-water with sprinklers or water trucks and allow time for penetration; and Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts.
Demolition – mechanical/manual	Stabilize wind erodible surfaces to reduce dust; and Stabilize surface soil where support equipment and vehicles will operate; and Stabilize loose soil and demolition debris; and Comply with AQMD Rule 1403.	Apply water in sufficient quantities to prevent the generation of visible dust plumes.

Required Best Available Control Measures for Fugitive Dust (Applicable to All Construction Activity Sources)		
Source Category	**Control Measures**	**Guidance**
Disturbed soil	Stabilize disturbed soil throughout the construction site; and Stabilize disturbed soil between structures	Limit vehicular traffic and disturbances on soils where possible; and If interior block walls are planned, install as early as possible; and Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes.
Earth-moving activities	Pre-apply water to depth of proposed cuts; and Re-apply water as necessary to maintain soils in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction; and Stabilize soils once earth-moving activities are complete.	Grade each Project phase separately, timed to coincide with construction phase; and Upwind fencing can prevent material movement onsite; and Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes.
Importing/exporting of bulk materials	Stabilize material while loading to reduce fugitive dust emissions; and Maintain at least six inches of freeboard on haul vehicles; and Stabilize material while transporting to reduce fugitive dust emissions; and Stabilize material while unloading to reduce fugitive dust emissions; and Comply with Vehicle Code Section 23114.	Use tarps or other suitable enclosures on haul trucks; and Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage; and Comply with track-out prevention/mitigation requirements; and Provide water while loading and unloading to reduce visible dust plumes.
Landscaping	Stabilize soils, materials, slopes	Apply water to materials to stabilize; and Maintain materials in a crusted condition; and Maintain effective cover over materials; and Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes; and Hydro seed prior to rain season.
Road shoulder maintenance	Apply water to unpaved shoulders prior to clearing; and Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder	Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs; and Use of chemical dust suppressants can inhibit vegetation growth and reduce

Required Best Available Control Measures for Fugitive Dust (Applicable to All Construction Activity Sources)		
Source Category	**Control Measures**	**Guidance**
	maintenance.	future road shoulder maintenance costs.
Screening	Pre-water material prior to screening; and Limit fugitive dust emissions to opacity and plume length standards; and Stabilize material immediately after screening.	Dedicate water truck or high capacity hose to screening operation; and Drop material through the screen slowly and minimize drop height; and Install wind barrier with a porosity of no more than 50% upwind of screen to the height of the drop point.
Staging areas	Stabilize staging areas during use; and Stabilize staging area soils at project completion.	Limit size of staging area; and Limit vehicle speeds to 15 miles per hour; and Limit number and size of staging area entrances/exits.
Stockpiles/bulk material handling	Stabilize stockpiled materials, and stockpiles within 100 yards of offsite occupied buildings must not be greater than eight feet in height or must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	Add or remove material from the downwind portion of the storage pile; and Maintain storage piles to avoid steep sides or faces.
Traffic areas for construction activities	Stabilize all off-road traffic and parking areas; and Stabilize all haul routes; and Direct construction traffic over established haul routes.	Apply gravel/paving to all haul routes as soon as possible to all future roadway areas; and Barriers can be used to ensure vehicles are used only on established parking areas/haul routes.
Trenching	Stabilize surface soils where trencher or excavator and support equipment will operate; and Stabilize soils at the completion of trenching activities.	Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches, soak soils via the pre-trench, and resume trenching; and Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment.
Truck loading	Pre-water material prior to loading; and Ensure that freeboard exceeds six inches (CVC 23114)	Empty loader bucket such that no visible dust plumes are created; and Ensure that the loader bucket is close to the truck to minimize drop height while

Required Best Available Control Measures for Fugitive Dust (Applicable to All Construction Activity Sources)		
Source Category	**Control Measures**	**Guidance**
		loading.
Turf overseeding	Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and Cover haul vehicles prior to exiting the site.	Haul waste material immediately offsite.
Unpaved roads/parking lots	Stabilize soils to meet the applicable performance standards; and Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements.
Vacant land	In instances where vacant lots are 0.10 acre or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and/or off-road vehicle trespassing, parking, and/or access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees, or other effective control measures.	

Contingency Control Measures for Fugitive Dust During High Winds in Excess of 25 MPH	
Fugitive Dust Source Category	**Control Measures**
Earth-moving	Cease all active operations; or Apply water to soil not more than 15 minutes prior to moving such soil.
Disturbed surface areas	On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; or Apply chemical stabilizers prior to wind event; or Apply water to all unstabilized disturbed areas three times per day. If there is any evidence of wind driven fugitive dust, watering frequency is increased to a minimum of four times per day; or Establish a vegetative ground cover within 21 days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; or Utilize any combination of these control actions such that, in total, these actions apply to all disturbed surface areas.
Unpaved roads	Apply chemical stabilizers prior to wind event; or Apply water twice per hour during active operation; or Stop all vehicular traffic.
Open storage piles	Apply water twice per hour; or Install temporary coverings.
Paved road track-out	Cover all haul vehicles; or Comply with the vehicle freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All categories	Any other control measures approved by the Executive Officer and the USEPA as equivalent to the methods specified in this table may be used.

Air Quality Assumptions and Summary

San Pedro NCP
Assumptions

General Assumptions

	2005	2030	
Average Speed	30	28	mpg
Residential trip rate[1]	2.30	1.75	trips/du
Commercial & Industrial Trip rate[1]	1.22	1.14	trips/KSF
PM Peak VMT[2]	56,792	67,189	
Conversion to daily[3]	11.22	11.22	
Total Daily VMT	637,206	753,861	
Average miles per trip Home[4]			
Home-based Work	10.1	10.1	
Home-based Shop	10.1	10.1	
Home-based Other	10.1	10.1	
Average milse per trip Commercial[4]			
Commercial-based Commute	10.2	10.3	
Commercial-based Non-Work	10.2	10.2	
Commercial-based Customer	10.1	10.2	
Average Daily Trips Residential[5]	54,291	60,740	
Average Daily Trips Commercial[5]	8,712	13,630	
Total Average Daily Trips	63,003	74,370	
Total residential dwelling units	24,969	34,730	
Total square footage	8,476	11,975	KSF
People per residential unit	2.4	2.4	

Notes:

1 Took the Average Daily trips and divided by the total units for residential and total square footage (in kSF) for commercial/industrial. URBEMIS totals trips differently, therefore the trip rate shown takes the existing trip generation rate and increased/decreased the value to more easily accomodate the project traffic study models.

2 Data provided by Iteris (in Appendix)

3 Taken from Iteris memo for TIMP Conversion (in Appendix)

4 Average miles per trip were determined by averaging the default miles per trip type for both home and commercial categories.

5 Average daily trips was determined based on service population (the number of residents plus the number of employees. To find total daily trips the percentage of service population that is residential or non-residential was multiplied by the total daily trips. Percentage of service population is below.

% Residential	86.05%	81.38%
% Non-residential	13.95%	18.62%

San Pedro NCP
Assumptions

AQMP Assumptions

Existing VMT	
Residential	548,342
Non-Residential	88,864
Total	637,206
Population	82,112
Employment	13,307
AQMP VMT Calculations	
% increase	26.79%
Residential	695,220
Non-Residential	112,667
Total	807,886
Population	104,106
% increase	28.57%
Employment	17,109
2030 Buildout VMT Calculations	
Residential	613,472
Non-Residential	140,389
Total	753,861
Population	83,354
Employment	19,159
AQMP % Growth Calculations	
VMT&Population	
2002-2030	30%
% growth/year	1.071%
Years between Existing (2005) and Buildout	25
Employment	
2002-2030	32%
% growth/year	1.143%
Years between Existing (2005) and Buildout	25

San Pedro NCP
Land Use Summary

		2005						2030					
Land Use Type	**CalEEMod Categories**	**Units**	**Pop**	**SQ Ft**	**KSF**	**Emp**	**Acerage**	**Units**	**Pop**	**SQ Ft**	**KSF**	**Emp**	**Acerage**
Low Residential	SFR	8,863		0	0.00		1,438.10	9,753	23,408	0	0	0	1,393.40
Low Medium I Residential	Apt Low	3,609		0	0.00		248.90	3,550	8,520	0	0	0	263.00
Low Medium II Residential	Apt Low	8,066		0	0.00		645.20	14,921	35,811	0	0	0	635.00
Medium Residential	Apt Mid	434		0	0.00		13.50	989	2,374	0	0	0	23.50
High Medium Residential	Apt High	1,298		0	0.00		8.90	366	879	0	0	0	5.90
General Commercial	General Office Bldg / Apt High	136		212,269	212.27	566	4.06	0	0	0	0	0	0
Neighborhood Commercial	Office Park/ Apt high	154		169,947	169.95	453	0.00	255	612	1,561,086	1561.086	4,163	95.20
Neighborhood Office Commercial	Office Park/Apt Mid	533		1,875,887	1875.89	5,003	50.62	0	0	0	0	0	0
Community Commercial	Government Office / Apt mid	1,080		2,141,187	2141.19	5,710	37.52	2,801	6,722	1,033,023	1033.023	2,755	45.30
Regional Center	Civic center / Apt Mid	129		254,570	254.57	679	12.64	0	0	0	0	0	0
Regional Commercial	Blank / Apt High	269		548,694	548.69	1,463	2.35	2,095	5,028	818,191	818.191	2,182	9.50
Commercial Manufacturing	Manufacturing	0		0	0.00	0	0.60	0	0	0	0	0	0
Limited Manufacturing	Blank / apt mid	101		1,039,225	1039.23	1,290	48.56	0	0	0	0	0	0
Hybrid Industrial	Blank	0		0	0.00	0	0.00	0	0	331,228	331.228	442	4.80
Limited Industrial	Industrial Park	0		0	0.00	0	0.00	0	0	1,779,583	1779.583	2,373	81.70
Light Manufacturing	Light Industry	0		20,253	20.25	25	55.50	0	0	2,087,342	2087.342	2,783	80.20
Heavy Manufacturing	Heavy Industry	0		1,820,492	1820.49	2,260	101.00	0	0	1,654,934	1654.934	1,667	76.00
Parking Buffer	Apt low	75		26,699	26.70	27	1.34	0	0	0	0	0	0
Open Space	Blank/apt low	46		82,498	82.50	82	443.01	0	0	535,825	535.825	536	481.70
Public Facilities	Blank/apt low	176		311,026	311.03	311	391.11	0	0	2,173,824	2173.824	2,174	399.20
Total	**Total**	**24,969**	**82,112**	**8,502,747**	**8,503**	**13,307**	**3,764.00**	**34,730**	**83,354**	**11,975,036**	**11,975**	**19,075**	**3,674.40**

Residential Summaries	SFR	8,863					1,438	9,753					1,393.40
	Apt Low	11,972					991	18,471					898.00
	Apt Mid	2,277					162	3,790					68.50
	Apt High	1,857					25	2,716					40.90
		24,969					2,616	34,730					2,400.80

Residential Summaries

	Office Park			2,045,834	2045.83		50.62			1,561,086	1561.09		95.20

San Pedro NCP
URBEMIS Summary

Unmitigated (lbs/day)

	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$
		Existing			
Area	4,730	621	10,112	1,544	1,486
Mobile	1,133	1,371	10,306	1,105	218
Total	5,864	1,993	20,419	2,649	1,704
		Total 2030 Unmitigated			
Area	7,049	885	15,289	2,339	2,252
Mobile	382	282	2,659	1,301	252
Total	7,430	1,166	17,948	3,640	2,504
		2030 Growth			
Area	2,318	264	5,177	795	765
Mobile	(752)	(1,090)	(7,647)	197	35
Total	1,567	(826)	(2,470)	991	800
SCAQMD Thresholds	55	55	550	150	55
Significant?	**Yes**	**No**	**No**	**Yes**	**Yes**

Mitigated (lbs/day)

	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$
		Existing			
Area	4,730	621	10,112	1,544	1,486
Mobile	1,133	1,371	10,306	1,105	218
Total	5,864	1,993	20,419	2,649	1,704
		Total 2030 Mitigated			
Area	5,210	929	10,243	1,559	1,501
Mobile	375	277	2,612	1,254	243
Total	5,584	1,205	12,855	2,813	1,745
		2030 Growth			
Area	479	307	131	15	15
Mobile	(759)	(1,095)	(7,694)	149	26
Total	(279)	(787)	(7,564)	164	41
SCAQMD Thresholds	55	55	550	150	55
Significant?	**No**	**No**	**No**	**Yes**	**No**

Reductions:

Reduction in VMT emissions from growth:	4.64%
Reduction in VMT emissions from total:	1.62%
Growth is X% of 2030 Total:	3.30%
Reduction in VMT from 2030 total:	1.77%
% of Fleet that are Heavy Duty Diesel Trucks:	1.90%

DPM Filter

No hearth emissions and maximum 80% NG Hearths in residences (Varies by pollutant)

2005 URBEMIS Output

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: R:\General Air Quality Info\Projects\100018607 - San Pedro New Community Plan EIR\Modeling\Urbemis\March 2011\San Pedro Existing.urb924

Project Name: San Pedro EIR - Existing

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	1,212.36	332.75	574.32	0.02	1.74	1.73

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	1,133.46	1,133.06	10,306.11	10.39	1,104.87	217.59

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	2,345.82	1,465.81	10,880.43	10.41	1,106.61	219.32

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5
Natural Gas	25.12	328.02	158.59	0.00	0.62	0.62
Hearth - No Summer Emissions						

Landscape	73.10	4.73	415.73	0.02	1.12	1.11
Consumer Products	940.60					
Architectural Coatings	173.54					
TOTALS (lbs/day, unmitigated)	1,212.36	332.75	574.32	0.02	1.74	1.73

Area Source Changes to Defaults

The number of persons per household for consumer product use changed from 3 persons to 2.4 persons

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	354.55	366.32	3,341.12	3.36	356.95	70.30
Apartments low rise	478.93	494.82	4,513.14	4.54	482.17	94.96
Apartments mid rise	9.08	9.38	85.57	0.09	9.14	1.80
Apartments high rise	74.29	76.75	700.04	0.70	74.79	14.73
General office building	5.43	4.66	41.86	0.04	4.56	0.90
Office park	52.74	45.07	408.57	0.41	44.01	8.67
Goverment office building	54.07	46.65	411.90	0.43	45.79	9.01
Government (civic center)	6.43	5.55	48.97	0.05	5.44	1.07
General light industry	0.52	0.45	4.05	0.00	0.44	0.09
General heavy industry	47.61	40.34	372.79	0.37	39.26	7.74
Regional Commercial	13.79	11.93	104.70	0.11	11.72	2.30
Limited Manufacturing	26.13	22.59	198.31	0.21	22.20	4.36
Open Space	2.07	1.79	15.74	0.02	1.76	0.35
Public Facilities	7.82	6.76	59.35	0.06	6.64	1.31
TOTALS (lbs/day, unmitigated)	1,133.46	1,133.06	10,306.11	10.39	1,104.87	217.59

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

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Analysis Year: 2005 Temperature (F): 80 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	1,438.00	2.30	dwelling units	8,863.00	20,384.90	205,887.49
Apartments low rise	991.00	2.30	dwelling units	11,972.00	27,535.60	278,109.56
Apartments mid rise	162.00	2.30	dwelling units	227.00	522.10	5,273.21
Apartments high rise	25.00	2.30	dwelling units	1,857.00	4,271.10	43,138.11
General office building		1.22	1000 sq ft	212.27	258.97	2,629.19
Office park		1.22	1000 sq ft	2,045.83	2,495.91	25,388.42
Goverment office building		1.22	1000 sq ft	2,141.19	2,612.25	26,422.93
Government (civic center)		1.22	1000 sq ft	254.57	310.58	3,141.47
General light industry		1.22	1000 sq ft	20.25	24.71	251.37
General heavy industry		1.22	1000 sq ft	1,820.49	2,221.00	22,643.07
Regional Commercial		1.22	1000 sq ft	548.69	669.40	6,762.97
Limited Manufacturing		1.22	1000 sq ft	1,039.23	1,267.86	12,809.20
Open Space		1.22	1000 sq ft	82.50	100.65	1,016.87
Public Facilities		1.22	1000 sq ft	311.03	379.46	3,833.65
					63,054.49	637,307.51

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.5	2.9	96.7	0.4
Light Truck < 3750 lbs	7.5	6.7	89.3	4.0
Light Truck 3751-5750 lbs	22.1	1.4	98.1	0.5
Med Truck 5751-8500 lbs	10.2	2.0	98.0	0.0

Lite-Heavy Truck 8501-10,000 lbs	1.8	0.0	83.3	16.7
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	100.0	0.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.7	85.2	14.8	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.8	12.5	75.0	12.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.1	10.1	10.1	10.2	10.2	10.1
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	30.6	20.3	49.1			
% of Trips - Commercial (by land use)						
General office building				35.0	17.5	47.5
Office park				48.0	24.0	28.0
Goverment office building				10.0	5.0	85.0
Government (civic center)				10.0	5.0	85.0
General light industry				50.0	25.0	25.0
General heavy industry				90.0	5.0	5.0
Regional Commercial				2.0	1.0	97.0

Limited Manufacturing	2.0	1.0	97.0
Open Space	2.0	1.0	97.0
Public Facilities	2.0	1.0	97.0

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Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: R:\General Air Quality Info\Projects\100018607 - San Pedro New Community Plan EIR\Modeling\Urbemis\March 2011\San Pedro Existing.urb924

Project Name: San Pedro EIR - Existing

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	4,730.24	621.29	10,112.46	27.86	1,544.00	1,486.37

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	1,067.84	1,371.26	10,028.87	9.30	1,104.87	217.59

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	5,798.08	1,992.55	20,141.33	37.16	2,648.87	1,703.96

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5
Natural Gas	25.12	328.02	158.59	0.00	0.62	0.62

Hearth	3,590.98	293.27	9,953.87	27.86	1,543.38	1,485.75
Landscaping - No Winter Emissions						
Consumer Products	940.60					
Architectural Coatings	173.54					
TOTALS (lbs/day, unmitigated)	4,730.24	621.29	10,112.46	27.86	1,544.00	1,486.37

Area Source Changes to Defaults

The number of persons per household for consumer product use changed from 3 persons to 2.4 persons

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	340.57	443.33	3,251.64	3.00	356.95	70.30
Apartments low rise	460.04	598.85	4,392.26	4.06	482.17	94.96
Apartments mid rise	8.72	11.35	83.28	0.08	9.14	1.80
Apartments high rise	71.36	92.89	681.29	0.63	74.79	14.73
General office building	4.69	5.64	40.69	0.04	4.56	0.90
Office park	45.56	54.55	396.55	0.37	44.01	8.67
Goverment office building	46.73	56.45	401.67	0.38	45.79	9.01
Government (civic center)	5.56	6.71	47.75	0.05	5.44	1.07
General light industry	0.45	0.54	3.93	0.00	0.44	0.09
General heavy industry	41.11	48.84	360.71	0.33	39.26	7.74
Regional Commercial	11.92	14.43	102.21	0.10	11.72	2.30
Limited Manufacturing	22.58	27.33	193.58	0.19	22.20	4.36
Open Space	1.79	2.17	15.37	0.01	1.76	0.35

Public Facilities	6.76	8.18	57.94	0.06	6.64	1.31
TOTALS (lbs/day, unmitigated)	1,067.84	1,371.26	10,028.87	9.30	1,104.87	217.59

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2005 Temperature (F): 60 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	1,438.00	2.30	dwelling units	8,863.00	20,384.90	205,887.49
Apartments low rise	991.00	2.30	dwelling units	11,972.00	27,535.60	278,109.56
Apartments mid rise	162.00	2.30	dwelling units	227.00	522.10	5,273.21
Apartments high rise	25.00	2.30	dwelling units	1,857.00	4,271.10	43,138.11
General office building		1.22	1000 sq ft	212.27	258.97	2,629.19
Office park		1.22	1000 sq ft	2,045.83	2,495.91	25,388.42
Goverment office building		1.22	1000 sq ft	2,141.19	2,612.25	26,422.93
Government (civic center)		1.22	1000 sq ft	254.57	310.58	3,141.47
General light industry		1.22	1000 sq ft	20.25	24.71	251.37
General heavy industry		1.22	1000 sq ft	1,820.49	2,221.00	22,643.07
Regional Commercial		1.22	1000 sq ft	548.69	669.40	6,762.97
Limited Manufacturing		1.22	1000 sq ft	1,039.23	1,267.86	12,809.20
Open Space		1.22	1000 sq ft	82.50	100.65	1,016.87
Public Facilities		1.22	1000 sq ft	311.03	379.46	3,833.65

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63,054.49 637,307.51

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	52.5	2.9	96.7	0.4
Light Truck < 3750 lbs	7.5	6.7	89.3	4.0
Light Truck 3751-5750 lbs	22.1	1.4	98.1	0.5
Med Truck 5751-8500 lbs	10.2	2.0	98.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.8	0.0	83.3	16.7
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	100.0	0.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.7	85.2	14.8	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.8	12.5	75.0	12.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.1	10.1	10.1	10.2	10.2	10.1
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	30.6	20.3	49.1			

% of Trips - Commercial (by land use)

General office building	35.0	17.5	47.5
Office park	48.0	24.0	28.0
Goverment office building	10.0	5.0	85.0
Government (civic center)	10.0	5.0	85.0
General light industry	50.0	25.0	25.0
General heavy industry	90.0	5.0	5.0
Regional Commercial	2.0	1.0	97.0
Limited Manufacturing	2.0	1.0	97.0
Open Space	2.0	1.0	97.0
Public Facilities	2.0	1.0	97.0

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Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: R:\General Air Quality Info\Projects\100018607 - San Pedro New Community Plan EIR\Modeling\Urbemis\March 2011\San Pedro Existing - Hearth Only.urb924

Project Name: San Pedro EIR - Existing - Hearth Only

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	3,590.98	293.27	9,953.87	27.86	1,543.38	1,485.75

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	3,590.98	293.27	9,953.87	27.86	1,543.38	1,485.75

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5
Natural Gas Hearth	3,590.98	293.27	9,953.87	27.86	1,543.38	1,485.75
Landscape						
Consumer Products						
Architectural Coatings						
TOTALS (lbs/day, unmitigated)	3,590.98	293.27	9,953.87	27.86	1,543.38	1,485.75

Area Source Changes to Defaults

2030 URBEMIS Output

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: R:\General Air Quality Info\Projects\100018607 - San Pedro New Community Plan EIR\Modeling\Urbemis\March 2011\San Pedro 2030.urb924

Project Name: San Pedro EIR - 2030 TIMP

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	1,687.86	454.32	663.89	0.02	2.07	2.06

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	381.62	233.71	2,658.81	8.02	1,301.45	252.49

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	2,069.48	688.03	3,322.70	8.04	1,303.52	254.55

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5
Natural Gas	34.48	449.17	209.97	0.00	0.85	0.85

Hearth - No Summer Emissions						
Landscape	80.16	5.15	453.92	0.02	1.22	1.21
Consumer Products	1,425.28					
Architectural Coatings	147.94					
TOTALS (lbs/day, unmitigated)	1,687.86	454.32	663.89	0.02	2.07	2.06

Area Source Changes to Defaults

The number of persons per household for consumer product use changed from 3 persons to 2.4 persons

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	84.06	53.41	609.93	1.83	297.19	57.67
Apartments low rise	159.19	101.14	1,155.07	3.47	562.81	109.22
Apartments mid rise	32.67	20.75	237.02	0.71	115.49	22.41
Apartments high rise	23.41	14.87	169.85	0.51	82.76	16.06
Office park	10.77	5.69	64.40	0.20	31.75	6.16
Goverment office building	7.05	3.74	41.04	0.13	20.92	4.05
General light industry	14.41	7.61	86.27	0.26	42.46	8.24
General heavy industry	11.53	6.07	70.19	0.21	33.81	6.56
Industrial park	12.26	6.48	72.95	0.22	36.17	7.01
Regional Commercial	5.57	2.96	32.25	0.10	16.56	3.20
Hybrid Industrial	2.25	1.20	13.05	0.04	6.70	1.30
Open Space	3.65	1.94	21.12	0.07	10.84	2.10
Public Facilities	14.80	7.85	85.67	0.27	43.99	8.51

TOTALS (lbs/day, unmitigated)	381.62	233.71	2,658.81	8.02	1,301.45	252.49

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2030 Temperature (F): 80 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	1,393.40	1.75	dwelling units	9,753.00	17,067.75	172,179.47
Apartments low rise	898.00	1.75	dwelling units	18,470.10	32,322.67	326,071.16
Apartments mid rise	69.50	1.75	dwelling units	3,790.00	6,632.50	66,908.66
Apartments high rise	40.90	1.75	dwelling units	2,716.00	4,753.00	47,948.27
Office park		1.15	1000 sq ft	1,561.09	1,795.25	18,397.76
Goverment office building		1.15	1000 sq ft	1,033.02	1,187.97	12,129.20
General light industry		1.15	1000 sq ft	2,087.34	2,400.44	24,604.52
General heavy industry		1.15	1000 sq ft	1,654.93	1,903.17	19,583.61
Industrial park		1.15	1000 sq ft	1,779.58	2,046.52	20,959.40
Regional Commercial		1.15	1000 sq ft	818.19	940.92	9,599.25
Hybrid Industrial		1.15	1000 sq ft	331.23	380.91	3,886.09
Open Space		1.15	1000 sq ft	535.83	616.20	6,286.52
Public Facilities		1.15	1000 sq ft	2,173.82	2,499.89	25,503.91
					74,547.19	754,057.82

Vehicle Fleet Mix

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Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel	
Light Auto	49.4	0.0	100.0	0.0	
Light Truck < 3750 lbs	7.3	0.0	100.0	0.0	
Light Truck 3751-5750 lbs	23.9	0.0	100.0	0.0	
Med Truck 5751-8500 lbs	11.4	0.0	100.0	0.0	
Lite-Heavy Truck 8501-10,000 lbs	1.8	0.0	83.3	16.7	0.003
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0	0.002
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0	0.008
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0	0.006
Other Bus	0.1	0.0	0.0	100.0	0.019
Urban Bus	0.1	0.0	0.0	100.0	
Motorcycle	2.7	33.3	66.7	0.0	
School Bus	0.1	0.0	0.0	100.0	
Motor Home	1.1	0.0	90.9	9.1	

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.1	10.0	10.1	10.3	10.2	10.2
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	30.6	12.0	57.4			
% of Trips - Commercial (by land use)						
Office park				48.0	24.0	28.0
Goverment office building				10.0	5.0	85.0

General light industry	50.0	25.0	25.0
General heavy industry	90.0	5.0	5.0
Industrial park	41.5	20.8	37.8
Regional Commercial	2.0	1.0	97.0
Hybrid Industrial	2.0	1.0	97.0
Open Space	2.0	1.0	97.0
Public Facilities	2.0	1.0	97.0

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Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: R:\General Air Quality Info\Projects\100018607 - San Pedro New Community Plan EIR\Modeling\Urbemis\March 2011\San Pedro 2030.urb924

Project Name: San Pedro EIR - 2030 TIMP

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	7,048.60	884.92	15,289.37	42.16	2,338.83	2,251.51

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	328.92	281.53	2,487.56	6.68	1,301.45	252.49

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	7,377.52	1,166.45	17,776.93	48.84	3,640.28	2,504.00

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5
Natural Gas	34.48	449.17	209.97	0.00	0.85	0.85

Hearth	5,440.90	435.75	15,079.40	42.16	2,337.98	2,250.66
Landscaping - No Winter Emissions						
Consumer Products	1,425.28					
Architectural Coatings	147.94					
TOTALS (lbs/day, unmitigated)	7,048.60	884.92	15,289.37	42.16	2,338.83	2,251.51

Area Source Changes to Defaults

The number of persons per household for consumer product use changed from 3 persons to 2.4 persons

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25
Single family housing	73.62	64.33	570.90	1.53	297.19	57.67
Apartments low rise	139.42	121.83	1,081.16	2.89	562.81	109.22
Apartments mid rise	28.61	25.00	221.85	0.59	115.49	22.41
Apartments high rise	20.50	17.92	158.98	0.43	82.76	16.06
Office park	8.75	6.86	60.07	0.16	31.75	6.16
Goverment office building	5.71	4.50	38.38	0.11	20.92	4.05
General light industry	11.70	9.17	80.47	0.22	42.46	8.24
General heavy industry	9.37	7.32	65.37	0.17	33.81	6.56
Industrial park	9.95	7.81	68.08	0.19	36.17	7.01
Regional Commercial	4.51	3.56	30.17	0.08	16.56	3.20
Hybrid Industrial	1.83	1.44	12.21	0.03	6.70	1.30
Open Space	2.96	2.33	19.76	0.06	10.84	2.10
Public Facilities	11.99	9.46	80.16	0.22	43.99	8.51

TOTALS (lbs/day, unmitigated)	328.92	281.53	2,487.56	6.68	1,301.45	252.49

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2030 Temperature (F): 60 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	1,393.40	1.75	dwelling units	9,753.00	17,067.75	172,179.47
Apartments low rise	898.00	1.75	dwelling units	18,470.10	32,322.67	326,071.16
Apartments mid rise	69.50	1.75	dwelling units	3,790.00	6,632.50	66,908.66
Apartments high rise	40.90	1.75	dwelling units	2,716.00	4,753.00	47,948.27
Office park		1.15	1000 sq ft	1,561.09	1,795.25	18,397.76
Goverment office building		1.15	1000 sq ft	1,033.02	1,187.97	12,129.20
General light industry		1.15	1000 sq ft	2,087.34	2,400.44	24,604.52
General heavy industry		1.15	1000 sq ft	1,654.93	1,903.17	19,583.61
Industrial park		1.15	1000 sq ft	1,779.58	2,046.52	20,959.40
Regional Commercial		1.15	1000 sq ft	818.19	940.92	9,599.25
Hybrid Industrial		1.15	1000 sq ft	331.23	380.91	3,886.09
Open Space		1.15	1000 sq ft	535.83	616.20	6,286.52
Public Facilities		1.15	1000 sq ft	2,173.82	2,499.89	25,503.91
					74,547.19	754,057.82

Vehicle Fleet Mix

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Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	49.4	0.0	100.0	0.0
Light Truck < 3750 lbs	7.3	0.0	100.0	0.0
Light Truck 3751-5750 lbs	23.9	0.0	100.0	0.0
Med Truck 5751-8500 lbs	11.4	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.8	0.0	83.3	16.7
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	1.0	0.0	20.0	80.0
Heavy-Heavy Truck 33,001-60,000 lbs	0.6	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.7	33.3	66.7	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	1.1	0.0	90.9	9.1

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	10.1	10.0	10.1	10.3	10.2	10.2
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	30.6	12.0	57.4			
% of Trips - Commercial (by land use)						
Office park				48.0	24.0	28.0
Goverment office building				10.0	5.0	85.0

General light industry	50.0	25.0	25.0
General heavy industry	90.0	5.0	5.0
Industrial park	41.5	20.8	37.8
Regional Commercial	2.0	1.0	97.0
Hybrid Industrial	2.0	1.0	97.0
Open Space	2.0	1.0	97.0
Public Facilities	2.0	1.0	97.0

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Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: R:\General Air Quality Info\Projects\100018607 - San Pedro New Community Plan EIR\Modeling\Urbemis\March 2011\San Pedro 2030 - Hearth Only.urb924

Project Name: San Pedro EIR - 2030 TIMP - Hearth Only

Project Location: South Coast AQMD

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

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	5,430.01	249.60	15,000.19	40.97	2,322.93	2,235.77

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5
TOTALS (lbs/day, unmitigated)	5,430.01	249.60	15,000.19	40.97	2,322.93	2,235.77

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5
Natural Gas Hearth	5,430.01	249.60	15,000.19	40.97	2,322.93	2,235.77
Landscape						
Consumer Products						
Architectural Coatings						
TOTALS (lbs/day, unmitigated)	5,430.01	249.60	15,000.19	40.97	2,322.93	2,235.77

Area Source Changes to Defaults

Percentage of residences with natural gas fireplaces changed from 85% to 0%

San Pedro
CO Hotspot Analysis

CO Results (Existing 2005)

Intersection	LOS	Peak Vehicle Volume	1-hour CO Project Concentration, ppm	1-hour CO Background Concentration, ppm	1-hour CO Total Concentration, ppm	8-hour CO Project Concentration, ppm	8-hour CO Background Concentration, ppm	8-hour CO Total Concentration, ppm	1-hour CO Limit, ppm	8-hour CO Limit, ppm
Gaffey Street and Sepulveda Street	F	11,255	9.0	3.0	**12.0**	6.3	2.6	**8.9**	20	9
Gaffey Street and 1st Street	F	8,744	6.9	3.0	**9.9**	4.8	2.6	**7.4**	20	9
Western Avenue and 1st Street	F	7,112	5.2	3.0	**8.2**	3.6	2.6	**6.2**	20	9
Gaffey Street and 7th Street	F	6,100	5.0	3.0	**8.0**	3.5	2.6	**6.1**	20	9
Channel Street and Gaffey Street	F	6,056	5.2	3.0	**8.2**	3.6	2.6	**6.2**	20	9
Gaffey Street and 9th Street	F	6,001	4.9	3.0	**7.9**	3.4	2.6	**6.0**	20	9
Gaffey Street and 5th Street	F	5,755	5.2	3.0	**8.2**	3.6	2.6	**6.2**	20	9
Western Avenue and Santa Cruze Street	F	5,056	4.8	3.0	**7.8**	3.4	2.6	**6.0**	20	9
Gaffey Street and 23rd Street	F	3,283	3.0	3.0	**6.0**	2.1	2.6	**4.7**	20	9
1st Street and Patton Avenue	F	3,244	3.2	3.0	**6.2**	2.2	2.6	**4.8**	20	9

CO Results (Buildout 2030)

Intersection	LOS	Peak Vehicle Volume	1-hour CO Project Concentration, ppm	1-hour CO Background Concentration, ppm	1-hour CO Total Concentration, ppm	8-hour CO Project Concentration, ppm	8-hour CO Background Concentration, ppm	8-hour CO Total Concentration, ppm	1-hour CO Limit, ppm	8-hour CO Limit, ppm
Western Avenue and 1st Street	**F**	**9,511**	**1.1**	3.0	**4.1**	0.8	2.6	**3.4**	20	9
Gaffey Street and Channel Street	**F**	**8,774**	**1.1**	3.0	**4.1**	0.8	2.6	**3.4**	20	9
1st Street and Gaffey Street	**F**	**8,677**	**1.0**	3.0	**4.0**	0.7	2.6	**3.3**	20	9
John S. Gibson Blvd and Channel Street	**F**	**7,564**	**1.2**	3.0	**4.2**	0.8	2.6	**3.4**	20	9
Western Avenue and Park Western Drive	**F**	**7,537**	**1.0**	3.0	**4.0**	0.7	2.6	**3.3**	20	9
Western Avenue and 9th Street	**F**	**7,462**	**0.9**	3.0	**3.9**	0.6	2.6	**3.2**	20	9
Western Avenue and Dodson Avenue	**F**	**6,945**	**0.9**	3.0	**3.9**	0.6	2.6	**3.2**	20	9
Gaffey Street and Elberon Avenue	**F**	**6,853**	**0.9**	3.0	**3.9**	0.6	2.6	**3.2**	20	9
Western Avenue and 19th Street	**F**	**6,728**	**0.9**	3.0	**3.9**	0.6	2.6	**3.2**	20	9
Pacific Avenue and Front Street	**F**	**6,580**	**0.9**	3.0	**3.9**	0.6	2.6	**3.2**	20	9

2005 Caline Output

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

JOB: 1st - Patton
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 35. (M)
BRG= WORST CASE VD= .0 CM/S
CLAS= 7 (G) VS= .0 CM/S
MIXH= 1000. M AMB= .0 PPM
SIGTH= 5. DEGREES TEMP= 4.0 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	*	5	0	5	600	* AG	790	6.5	.0	10.0
B. NB Approach	*	5	600	5	755	* AG	567	11.6	.0	10.0
C. NB Depart	*	5	755	5	911	* AG	948	11.6	.0	10.0
D. NB External	*	5	911	5	1511	* AG	948	6.5	.0	10.0
E. NB Left 22	*	5	600	2	755	* AG	223	11.6	.0	10.0
F. SB Left 12	*	0	911	2	755	* AG	122	11.6	.0	10.0
G. SB External	*	0	1511	0	911	* AG	428	6.5	.0	10.0
H. SB Approach	*	0	911	0	755	* AG	306	11.6	.0	10.0
I. SB Depart	*	0	755	0	600	* AG	788	11.6	.0	10.0
J. SB External	*	0	600	0	0	* AG	788	6.5	.0	10.0
K. EB External	*	-750	750	-150	750	* AG	728	6.5	.0	13.7
L. EB Approach	*	-150	750	2	750	* AG	520	11.6	.0	13.7
M. EB Depart	*	2	750	155	750	* AG	657	11.6	.0	13.7
N. EB External	*	155	750	755	750	* AG	657	6.5	.0	13.7
O. WB External	*	755	761	155	761	* AG	1585	6.5	.0	13.7
P. WB Approach	*	155	761	2	761	* AG	1189	11.6	.0	13.7
Q. WB Depart	*	2	761	-150	761	* AG	1138	11.6	.0	13.7
R. WB External	*	-150	761	-750	761	* AG	1138	6.5	.0	13.7
S. EB Left 20	*	-150	750	2	755	* AG	208	11.6	.0	13.7
T. WB Left 39	*	155	761	2	755	* AG	396	11.6	.0	13.7

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

JOB: 1st - Patton
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M) X	Y	Z
1. Receptor	*	-3	747	2.0
2. Receptor	*	8	747	2.0
3. Receptor	*	8	764	2.0
4. Receptor	*	-3	764	2.0

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. Receptor	* 85.	* 2.7	* .0	.2	.0	.0	.0	.0	.0	.0
2. Receptor	* 357.	* 2.9	* .0	.2	1.3	.2	.0	.2	.1	.2
3. Receptor	* 183.	* 3.0	* .1	.8	.3	.0	.3	.0	.0	.0
4. Receptor	* 92.	* 3.2	* .0	.0	.3	.0	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	*	.3	.0	.0	.0	.8	.0	.3	.5	.0	.0	.0	.4
2. Receptor	*	.0	.0	.0	.0	.2	.0	.0	.4	.0	.0	.0	.2
3. Receptor	*	.5	.2	.0	.0	.2	.0	.0	.3	.0	.0	.0	.1
4. Receptor	*	.0	.0	.0	.0	.1	.2	.3	1.6	.2	.0	.0	.3

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

                JOB: Channel-Gaffey
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S             Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE            VD=   .0 CM/S
     CLAS=     7 (G)             VS=   .0 CM/S
     MIXH= 1000. M               AMB=  .0 PPM
    SIGTH=    5. DEGREES        TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   1511   6.5     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   1133  11.6     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG   1505  11.6     .0  15.2
D. NB External  *    12   905    12  1505 *  AG   1505   6.5     .0  15.2
E. NB Left   37 *    12   600     6   752 *  AG    378  11.6     .0  15.2
F. SB Left   38 *     0   905     6   752 *  AG    386  11.6     .0  15.2
G. SB External  *     0  1505     0   905 *  AG   1544   6.5     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG   1158  11.6     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG   1522  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1522   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG   1725   6.5     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG   1294  11.6     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG   1627  11.6     .0  10.0
N. EB External  *   162   750   762   750 *  AG   1627   6.5     .0  10.0
O. WB External  *   762   755   162   755 *  AG   1277   6.5     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG    958  11.6     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG   1403  11.6     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG   1403   6.5     .0  10.0
S. EB Left   43 *  -150   750     6   752 *  AG    431  11.6     .0  10.0
T. WB Left   31 *   162   755     6   752 *  AG    319  11.6     .0  10.0
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          CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
                   JUNE 1989 VERSION
                   PAGE   2

                JOB: Channel-Gaffey
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    758   2.0
4. Receptor *     -3    758   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-------------------------------------------
1. Receptor *   87. *   5.0 *   .0   .3   .0   .0   .1   .0   .0   .0
2. Receptor *  273. *   5.2 *   .0   .3   .0   .0   .1   .0   .0   .0
3. Receptor *  267. *   4.8 *   .0   .0   .4   .0   .0   .1   .0   .4
4. Receptor *   94. *   4.5 *   .0   .0   .5   .0   .0   .1   .0   .3


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .4   .0   .0   .5  2.0   .2   .3   .6   .0   .0   .1   .4
2. Receptor *   .5   .0   .2  1.7   .6   .0   .0   .0   .8   .3   .6   .0
3. Receptor *   .0   .0   .3   .8   .0   .0   .0   .3  1.8   .2   .5   .0
4. Receptor *   .0   .0   .0   .0  1.1   .2   .1  1.3   .5   .0   .0   .4
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          CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
                   JUNE 1989 VERSION
                   PAGE   1

                JOB: Gaffey-1st
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   4159   6.5     .0  15.2
B. NB Approach  *    12   600    12   755 *  AG   3119  11.6     .0  15.2
C. NB Depart    *    12   755    12   911 *  AG   2435  11.6     .0  15.2
D. NB External  *    12   911    12  1511 *  AG   2435   6.5     .0  15.2
E. NB Left   10 *    12   600     6   755 *  AG   1040  11.6     .0  15.2
F. SB Left   79 *     0   911     6   755 *  AG    792  11.6     .0  15.2
G. SB External  *     0  1511     0   911 *  AG   3167   6.5     .0  15.2
H. SB Approach  *     0   911     0   755 *  AG   2375  11.6     .0  15.2
I. SB Depart    *     0   755     0   600 *  AG   1939  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1939   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    283   6.5     .0  13.7
L. EB Approach  *  -150   750     6   750 *  AG    212  11.6     .0  13.7
M. EB Depart    *     6   750   162   750 *  AG   1973  11.6     .0  13.7
N. EB External  *   162   750   762   750 *  AG   1973   6.5     .0  13.7
O. WB External  *   762   761   162   761 *  AG   1139   6.5     .0  13.7
P. WB Approach  *   162   761     6   761 *  AG    854  11.6     .0  13.7
Q. WB Depart    *     6   761  -150   761 *  AG   2401  11.6     .0  13.7
R. WB External  *  -150   761  -750   761 *  AG   2401   6.5     .0  13.7
S. EB Left   71 *  -150   750     6   755 *  AG     71  11.6     .0  13.7
T. WB Left   28 *   162   761     6   755 *  AG    285  11.6     .0  13.7


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

                JOB: Gaffey-1st
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    764   2.0
4. Receptor *     -3    764   2.0


 IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
 RECEPTOR   * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*------*-------*-----------------------------------------
1. Receptor *    3. *   5.9 *   .0   .0   .5   .5   .0   .7   .4  2.6
2. Receptor *  356. *   6.1 *   .0   .6  2.6   .3   .0   .6   .5   .6
3. Receptor *  183. *   6.9 *   .5  3.2   .5   .0   .9   .0   .0   .0
4. Receptor *  175. *   5.7 *   .5   .9   .0   .0   .8   .0   .0   .5


            *                        CONC/LINK
            *                          (PPM)
 RECEPTOR   *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .4   .0   .0   .0   .0   .0   .0   .0   .7   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .6   .0   .0   .3   .0   .0   .0   .1
3. Receptor *   .4   .4   .0   .0   .6   .0   .0   .2   .0   .0   .0   .1
4. Receptor *  2.0   .1   .0   .0   .0   .0   .0   .0   .7   .0   .0   .0
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          CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
                   JUNE 1989 VERSION
                   PAGE   1

                JOB: Gaffey-23rd
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


  II.  LINK VARIABLES

      LINK      *  LINK COORDINATES (M)   *              EF     H     W
   DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   1493   6.5     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   1120  11.6     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG    935  11.6     .0  15.2
D. NB External  *    12   905    12  1505 *  AG    935   6.5     .0  15.2
E. NB Left   37 *    12   600     6   752 *  AG    373  11.6     .0  15.2
F. SB Left   26 *     0   905     6   752 *  AG    260  11.6     .0  15.2
G. SB External  *     0  1505     0   905 *  AG   1040   6.5     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG    780  11.6     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG    708  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG    708   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG     76   6.5     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG     57  11.6     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG    671  11.6     .0  10.0
N. EB External  *   162   750   762   750 *  AG    671   6.5     .0  10.0
O. WB External  *   762   755   162   755 *  AG    676   6.5     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG    507  11.6     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG    971  11.6     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG    971   6.5     .0  10.0
S. EB Left   19 *  -150   750     6   752 *  AG     19  11.6     .0  10.0
T. WB Left   16 *   162   755     6   752 *  AG    169  11.6     .0  10.0
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          CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
                   JUNE 1989 VERSION
                   PAGE   2

                JOB: Gaffey-23rd
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    758   2.0
4. Receptor *     -3    758   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-----------------------------------------
1. Receptor *   87. *   2.5 *   .0   .3   .0   .0   .1   .0   .0   .0
2. Receptor *  357. *   2.6 *   .0   .1  1.2   .2   .0   .2   .3   .2
3. Receptor *  182. *   3.0 *   .3  1.4   .1   .0   .4   .0   .0   .0
4. Receptor *   93. *   2.6 *   .0   .0   .3   .0   .0   .0   .0   .2


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .2   .0   .0   .0  1.0   .1   .2   .4   .0   .0   .0   .2
2. Receptor *   .0   .0   .0   .0   .2   .0   .0   .2   .0   .0   .0   .0
3. Receptor *   .1   .2   .0   .0   .2   .0   .0   .2   .0   .0   .0   .0
4. Receptor *   .0   .0   .0   .0   .4   .2   .1   .7   .3   .0   .0   .2
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          CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
                   JUNE 1989 VERSION
                   PAGE   1

                JOB: Gaffey-5th
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM           ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   2829   6.5     .0  15.2
B. NB Approach  *    12   600    12   755 *  AG   1886  11.6     .0  15.2
C. NB Depart    *    12   755    12   911 *  AG   1920  11.6     .0  15.2
D. NB External  *    12   911    12  1511 *  AG   1920   6.5     .0  15.2
E. NB Left   94 *    12   600     6   755 *  AG    943  11.6     .0  15.2
F. SB Left   0  *     0   911     6   755 *  AG      0  11.6     .0  15.2
G. SB External  *     0  1511     0   911 *  AG   2859   6.5     .0  15.2
H. SB Approach  *     0   911     0   755 *  AG   2859  11.6     .0  15.2
I. SB Depart    *     0   755     0   600 *  AG   1940  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1940   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG     68   6.5     .0  13.7
L. EB Approach  *  -150   750     6   750 *  AG     34  11.6     .0  13.7
M. EB Depart    *     6   750   162   750 *  AG      0  11.6     .0  13.7
N. EB External  *   162   750   762   750 *  AG      0   6.5     .0  13.7
O. WB External  *   762   761   162   761 *  AG      0   6.5     .0  13.7
P. WB Approach  *   162   761     6   761 *  AG      0  11.6     .0  13.7
Q. WB Depart    *     6   761  -150   761 *  AG   1896  11.6     .0  13.7
R. WB External  *  -150   761  -750   761 *  AG   1896   6.5     .0  13.7
S. EB Left   34 *  -150   750     6   755 *  AG     34  11.6     .0  13.7
T. WB Left   0  *   162   761     6   755 *  AG      0  11.6     .0  13.7


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

                JOB: Gaffey-5th
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    764   2.0
4. Receptor *     -3    764   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-------------------------------------------
1. Receptor *    2. *   5.2 *   .0   .0   .3   .4   .0   .0   .5  3.1
2. Receptor *  183. *   4.6 *   .4  2.5   .0   .0   .9   .0   .0   .0
3. Receptor *  183. *   4.6 *   .4  2.1   .4   .0   .8   .0   .0   .0
4. Receptor *  176. *   5.2 *   .5   .5   .0   .0   .7   .0   .0   .6


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .4   .0   .0   .0   .0   .0   .0   .0   .6   .0   .0   .0
2. Receptor *   .3   .5   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .4   .4   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *  2.1   .2   .0   .0   .0   .0   .0   .0   .5   .0   .0   .0
```

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

                JOB: Gaffey-7th
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S             Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE            VD=   .0 CM/S
     CLAS=     7 (G)             VS=   .0 CM/S
     MIXH= 1000. M               AMB=   .0 PPM
    SIGTH=    5. DEGREES        TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   2860   6.5     .0  15.2
B. NB Approach  *    12   600    12   755 *  AG   2145  11.6     .0  15.2
C. NB Depart    *    12   755    12   911 *  AG   1558  11.6     .0  15.2
D. NB External  *    12   911    12  1511 *  AG   1558   6.5     .0  15.2
E. NB Left   71 *    12   600     6   755 *  AG    715  11.6     .0  15.2
F. SB Left   68 *     0   911     6   755 *  AG    682  11.6     .0  15.2
G. SB External  *     0  1511     0   911 *  AG   2729   6.5     .0  15.2
H. SB Approach  *     0   911     0   755 *  AG   2047  11.6     .0  15.2
I. SB Depart    *     0   755     0   600 *  AG   1493  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1493   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    153   6.5     .0  13.7
L. EB Approach  *  -150   750     6   750 *  AG    115  11.6     .0  13.7
M. EB Depart    *     6   750   162   750 *  AG   1474  11.6     .0  13.7
N. EB External  *   162   750   762   750 *  AG   1474   6.5     .0  13.7
O. WB External  *   762   761   162   761 *  AG    360   6.5     .0  13.7
P. WB Approach  *   162   761     6   761 *  AG    270  11.6     .0  13.7
Q. WB Depart    *     6   761  -150   761 *  AG   1577  11.6     .0  13.7
R. WB External  *  -150   761  -750   761 *  AG   1577   6.5     .0  13.7
S. EB Left   38 *  -150   750     6   755 *  AG     38  11.6     .0  13.7
T. WB Left   90 *   162   761     6   755 *  AG     90  11.6     .0  13.7


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

                JOB: Gaffey-7th
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    764   2.0
4. Receptor *     -3    764   2.0


 IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
 RECEPTOR   * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*------*-------*-----------------------------------------
1. Receptor *    3. *   4.9 *   .0   .0   .3   .4   .0   .6   .4  2.3
2. Receptor *  355. *   4.5 *   .0   .4  1.7   .1   .0   .6   .4   .7
3. Receptor *  183. *   5.0 *   .4  2.3   .3   .0   .7   .0   .0   .0
4. Receptor *  175. *   4.4 *   .4   .7   .0   .0   .6   .0   .0   .5


            *                        CONC/LINK
            *                          (PPM)
 RECEPTOR   *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .3   .0   .0   .0   .0   .0   .0   .0   .5   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .4   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .3   .4   .0   .0   .5   .0   .0   .0   .0   .0   .0   .0
4. Receptor *  1.6   .1   .0   .0   .0   .0   .0   .0   .4   .0   .0   .0
```

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

                JOB: Gaffey-9th
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   2729   6.5     .0  15.2
B. NB Approach  *    12   600    12   756 *  AG   2047  11.6     .0  15.2
C. NB Depart    *    12   756    12   912 *  AG   1619  11.6     .0  15.2
D. NB External  *    12   912    12  1512 *  AG   1619   6.5     .0  15.2
E. NB Left   68 *    12   600     6   756 *  AG    682  11.6     .0  15.2
F. SB Left   56 *     0   912     6   756 *  AG    564  11.6     .0  15.2
G. SB External  *     0  1512     0   912 *  AG   2256   6.5     .0  15.2
H. SB Approach  *     0   912     0   756 *  AG   1692  11.6     .0  15.2
I. SB Depart    *     0   756     0   600 *  AG   1382  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1382   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    245   6.5     .0  15.2
L. EB Approach  *  -150   750     6   750 *  AG    184  11.6     .0  15.2
M. EB Depart    *     6   750   162   750 *  AG   1369  11.6     .0  15.2
N. EB External  *   162   750   762   750 *  AG   1369   6.5     .0  15.2
O. WB External  *   762   762   162   762 *  AG    772   6.5     .0  15.2
P. WB Approach  *   162   762     6   762 *  AG    579  11.6     .0  15.2
Q. WB Depart    *     6   762  -150   762 *  AG   1632  11.6     .0  15.2
R. WB External  *  -150   762  -750   762 *  AG   1632   6.5     .0  15.2
S. EB Left   61 *  -150   750     6   756 *  AG     61  11.6     .0  15.2
T. WB Left   19 *   162   762     6   756 *  AG    193  11.6     .0  15.2

□□


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

                JOB: Gaffey-9th
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3     747   2.0
2. Receptor *     15     747   2.0
3. Receptor *     15     765   2.0
4. Receptor *     -3     765   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-----------------------------------------
1. Receptor *    3. *   4.4 *   .0   .0   .3   .4   .0   .5   .3  1.9
2. Receptor *  356. *   4.4 *   .0   .5  1.8   .2   .0   .4   .4   .5
3. Receptor *  183. *   4.9 *   .4  2.3   .4   .0   .6   .0   .0   .0
4. Receptor *  175. *   4.2 *   .4   .7   .0   .0   .6   .0   .0   .4


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .3   .0   .0   .0   .0   .0   .0   .0   .5   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .4   .0   .0   .2   .0   .0   .0   .0
3. Receptor *   .3   .3   .0   .0   .4   .0   .0   .2   .0   .0   .0   .0
4. Receptor *  1.5   .1   .0   .0   .0   .0   .0   .0   .4   .0   .0   .0

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

                JOB: Gaffey - Sepulveda
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   5866   6.5     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   3911  11.6     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG   4527  11.6     .0  15.2
D. NB External  *    12   905    12  1505 *  AG   4527   6.5     .0  15.2
E. NB Left   19 *    12   600     6   752 *  AG   1955  11.6     .0  15.2
F. SB Left   0  *     0   905     6   752 *  AG      0  11.6     .0  15.2
G. SB External  *     0  1505     0   905 *  AG   4158   6.5     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG   4158  11.6     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG   3388  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG   3388   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG   1232   6.5     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG    616  11.6     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG      0  11.6     .0  10.0
N. EB External  *   162   750   762   750 *  AG      0   6.5     .0  10.0
O. WB External  *   762   755   162   755 *  AG      0   6.5     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG      0  11.6     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG   3341  11.6     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG   3341   6.5     .0  10.0
S. EB Left   61 *  -150   750     6   752 *  AG    616  11.6     .0  10.0
T. WB Left   0  *   162   755     6   752 *  AG      0  11.6     .0  10.0
```



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

                JOB: Gaffey - Sepulveda
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    758   2.0
4. Receptor *     -3    758   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-------------------------------------------
1. Receptor *    3. *   8.4 *   .0   .0   .7   .7   .0   .0   .5  4.4
2. Receptor *  183. *   8.3 *   .8  4.6   .0   .0  1.8   .0   .0   .0
3. Receptor *  183. *   8.3 *   .7  4.1   .7   .0  1.6   .0   .0   .0
4. Receptor *  174. *   9.0 *   .6  1.2   .0   .0  1.6   .0   .0   .6


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .4   .0   .0   .2   .0   .0   .0   .0  1.2   .0   .2   .0
2. Receptor *   .5   .6   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .6   .6   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *  3.3   .1   .0   .2   .0   .0   .0   .0  1.1   .0   .2   .0
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          CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
                   JUNE 1989 VERSION
                   PAGE   1

                JOB: Western-1st
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   2451   6.5     .0  15.2
B. NB Approach  *    12   600    12   755 *  AG   1838  11.6     .0  15.2
C. NB Depart    *    12   755    12   911 *  AG   1758  11.6     .0  15.2
D. NB External  *    12   911    12  1511 *  AG   1758   6.5     .0  15.2
E. NB Left   61 *    12   600     6   755 *  AG    613  11.6     .0  15.2
F. SB Left   63 *     0   911     6   755 *  AG    633  11.6     .0  15.2
G. SB External  *     0  1511     0   911 *  AG   2532   6.5     .0  15.2
H. SB Approach  *     0   911     0   755 *  AG   1899  11.6     .0  15.2
I. SB Depart    *     0   755     0   600 *  AG   1799  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1799   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG   1585   6.5     .0  13.7
L. EB Approach  *  -150   750     6   750 *  AG   1189  11.6     .0  13.7
M. EB Depart    *     6   750   162   750 *  AG   2039  11.6     .0  13.7
N. EB External  *   162   750   762   750 *  AG   2039   6.5     .0  13.7
O. WB External  *   762   761   162   761 *  AG    547   6.5     .0  13.7
P. WB Approach  *   162   761     6   761 *  AG    410  11.6     .0  13.7
Q. WB Depart    *     6   761  -150   761 *  AG   1519  11.6     .0  13.7
R. WB External  *  -150   761  -750   761 *  AG   1519   6.5     .0  13.7
S. EB Left   39 *  -150   750     6   755 *  AG    396  11.6     .0  13.7
T. WB Left   13 *   162   761     6   755 *  AG    137  11.6     .0  13.7

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

                JOB: Western-1st
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    764   2.0
4. Receptor *     -3    764   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
 RECEPTOR   * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*------*-------*-----------------------------------------
1. Receptor *    3. *   5.2 *   .0   .0   .4   .4   .0   .6   .4  2.2
2. Receptor *  273. *   4.6 *   .0   .5   .0   .0   .2   .0   .0   .0
3. Receptor *  183. *   4.9 *   .4  2.0   .4   .0   .6   .0   .0   .0
4. Receptor *  176. *   5.0 *   .5   .5   .0   .0   .5   .0   .0   .4


            *                        CONC/LINK
            *                          (PPM)
 RECEPTOR   *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .4   .0   .0   .3   .0   .0   .0   .0   .5   .0   .2   .0
2. Receptor *   .5   .0   .3  1.4   .5   .0   .0   .0   .4   .4   .4   .0
3. Receptor *   .4   .4   .0   .0   .6   .0   .0   .1   .0   .0   .0   .0
4. Receptor *  1.9   .2   .0   .4   .0   .0   .0   .0   .4   .0   .1   .0

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

                JOB: Western-Santa Cruz
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=  .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   2404   6.5     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   1603  11.6     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG   1704  11.6     .0  15.2
D. NB External  *    12   905    12  1505 *  AG   1704   6.5     .0  15.2
E. NB Left   80 *    12   600     6   752 *  AG    801  11.6     .0  15.2
F. SB Left   0  *     0   905     6   752 *  AG      0  11.6     .0  15.2
G. SB External  *     0  1505     0   905 *  AG   2450   6.5     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG   2450  11.6     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG   1734  11.6     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1734   6.5     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    202   6.5     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG    101  11.6     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG      0  11.6     .0  10.0
N. EB External  *   162   750   762   750 *  AG      0   6.5     .0  10.0
O. WB External  *   762   755   162   755 *  AG      0   6.5     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG      0  11.6     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG   1618  11.6     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG   1618   6.5     .0  10.0
S. EB Left   10 *  -150   750     6   752 *  AG    101  11.6     .0  10.0
T. WB Left   0  *   162   755     6   752 *  AG      0  11.6     .0  10.0

□□



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

                JOB: Western-Santa Cruz
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3     747   2.0
2. Receptor *     15     747   2.0
3. Receptor *     15     758   2.0
4. Receptor *     -3     758   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
 RECEPTOR   * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*------*-------*-----------------------------------------
1. Receptor *    2. *   4.8 *   .0   .0   .2   .4   .0   .0   .5  2.9
2. Receptor *  183. *   4.0 *   .4  2.1   .0   .0   .8   .0   .0   .0
3. Receptor *  183. *   4.0 *   .4  1.9   .3   .0   .7   .0   .0   .0
4. Receptor *  176. *   4.6 *   .5   .4   .0   .0   .5   .0   .0   .4


            *                        CONC/LINK
            *                          (PPM)
 RECEPTOR   *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .2   .0   .0   .0   .0   .0   .0   .0   .6   .0   .0   .0
2. Receptor *   .3   .4   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .3   .4   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *  2.0   .2   .0   .0   .0   .0   .0   .0   .5   .0   .0   .0

□□
```

2030 Caline Output

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

                JOB: 1st - Gaffey
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    11     0    11   600 *  AG   3768   1.1     .0  13.7
B. NB Approach  *    11   600    11   756 *  AG   2826   1.7     .0  13.7
C. NB Depart    *    11   756    11   912 *  AG   2370   1.7     .0  13.7
D. NB External  *    11   912    11  1512 *  AG   2370   1.1     .0  13.7
E. NB Left   94 *    11   600     5   756 *  AG    942   1.7     .0  13.7
F. SB Left   74 *     0   912     5   756 *  AG    742   1.7     .0  13.7
G. SB External  *     0  1512     0   912 *  AG   2968   1.1     .0  13.7
H. SB Approach  *     0   912     0   756 *  AG   2226   1.7     .0  13.7
I. SB Depart    *     0   756     0   600 *  AG   1970   1.7     .0  13.7
J. SB External  *     0   600     0     0 *  AG   1970   1.1     .0  13.7
K. EB External  *  -750   750  -150   750 *  AG    420   1.1     .0  15.2
L. EB Approach  *  -150   750     5   750 *  AG    315   1.7     .0  15.2
M. EB Depart    *     5   750   161   750 *  AG   1894   1.7     .0  15.2
N. EB External  *   161   750   761   750 *  AG   1894   1.1     .0  15.2
O. WB External  *   761   762   161   762 *  AG   1524   1.1     .0  15.2
P. WB Approach  *   161   762     5   762 *  AG   1143   1.7     .0  15.2
Q. WB Depart    *     5   762  -150   762 *  AG   2446   1.7     .0  15.2
R. WB External  *  -150   762  -750   762 *  AG   2446   1.1     .0  15.2
S. EB Left   10 *  -150   750     5   756 *  AG    105   1.7     .0  15.2
T. WB Left   38 *   161   762     5   756 *  AG    381   1.7     .0  15.2

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

                JOB: 1st - Gaffey
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     14    747   2.0
3. Receptor *     14    765   2.0
4. Receptor *     -3    765   2.0


 IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
 RECEPTOR   * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-------------------------------------------
1. Receptor *    3. *    .9 *   .0   .0   .0   .0   .0   .1   .0   .4
2. Receptor *  356. *    .9 *   .0   .1   .4   .0   .0   .0   .0   .0
3. Receptor *  183. *   1.0 *   .0   .4   .0   .0   .1   .0   .0   .0
4. Receptor *  175. *    .9 *   .0   .1   .0   .0   .1   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
 RECEPTOR   *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .1   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .3   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0

□□
```

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

                JOB: Gaffey - Channel
                RUN: Hour 1            (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S             Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE            VD=   .0 CM/S
     CLAS=     7 (G)             VS=   .0 CM/S
     MIXH= 1000. M               AMB=  .0 PPM
    SIGTH=    5. DEGREES        TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   1860   1.1     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   1395   1.7     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG   1860   1.7     .0  15.2
D. NB External  *    12   905    12  1505 *  AG   1860   1.1     .0  15.2
E. NB Left   46 *    12   600     6   752 *  AG    465   1.7     .0  15.2
F. SB Left   79 *     0   905     6   752 *  AG    799   1.7     .0  15.2
G. SB External  *     0  1505     0   905 *  AG   3196   1.1     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG   2397   1.7     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG   2528   1.7     .0  15.2
J. SB External  *     0   600     0     0 *  AG   2528   1.1     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG   2528   1.1     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG   1896   1.7     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG   2528   1.7     .0  10.0
N. EB External  *   162   750   762   750 *  AG   2528   1.1     .0  10.0
O. WB External  *   762   755   162   755 *  AG   1191   1.1     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG    893   1.7     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG   1859   1.7     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG   1859   1.1     .0  10.0
S. EB Left   63 *  -150   750     6   752 *  AG    632   1.7     .0  10.0
T. WB Left   29 *   162   755     6   752 *  AG    298   1.7     .0  10.0
```



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

                JOB: Gaffey - Channel
                RUN: Hour 1            (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    758   2.0
4. Receptor *     -3    758   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-----------------------------------------
1. Receptor *    3. *   1.0 *   .0   .0   .0   .0   .0   .1   .0   .4
2. Receptor *  273. *   1.1 *   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *  266. *   1.0 *   .0   .0   .0   .0   .0   .0   .0   .1
4. Receptor *  177. *    .9 *   .0   .0   .0   .0   .0   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
2. Receptor *   .1   .0   .0   .3   .1   .0   .0   .0   .1   .0   .1   .0
3. Receptor *   .0   .0   .0   .2   .0   .0   .0   .0   .3   .0   .1   .0
4. Receptor *   .4   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
```

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

                JOB: Gaffey-Elberon
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM           ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   3196   1.1     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   2397   1.7     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG   1721   1.7     .0  15.2
D. NB External  *    12   905    12  1505 *  AG   1721   1.1     .0  15.2
E. NB Left   79 *    12   600     6   752 *  AG    799   1.7     .0  15.2
F. SB Left   79 *     0   905     6   752 *  AG    791   1.7     .0  15.2
G. SB External  *     0  1505     0   905 *  AG   3165   1.1     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG   2374   1.7     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG   1706   1.7     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1706   1.1     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    137   1.1     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG    103   1.7     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG   1659   1.7     .0  10.0
N. EB External  *   162   750   762   750 *  AG   1659   1.1     .0  10.0
O. WB External  *   762   755   162   755 *  AG    356   1.1     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG    267   1.7     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG   1768   1.7     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG   1768   1.1     .0  10.0
S. EB Left   34 *  -150   750     6   752 *  AG     34   1.7     .0  10.0
T. WB Left   89 *   162   755     6   752 *  AG     89   1.7     .0  10.0
```



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

                JOB: Gaffey-Elberon
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    758   2.0
4. Receptor *     -3    758   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-------------------------------------------
1. Receptor *    3. *    .8 *   .0   .0   .0   .0   .0   .1   .0   .4
2. Receptor *  356. *    .7 *   .0   .0   .3   .0   .0   .0   .0   .0
3. Receptor *  183. *    .9 *   .0   .4   .0   .0   .1   .0   .0   .0
4. Receptor *  176. *    .7 *   .0   .0   .0   .0   .0   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .3   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
```

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

                JOB: Gibson - Channel
                RUN: Hour 1            (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S             Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE            VD=   .0 CM/S
     CLAS=     7 (G)             VS=   .0 CM/S
     MIXH= 1000. M               AMB=  .0 PPM
    SIGTH=    5. DEGREES        TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   4065   1.1     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   4065   1.7     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG   3974   1.7     .0  15.2
D. NB External  *    12   905    12  1505 *  AG   3974   1.1     .0  15.2
E. NB Left   0  *    12   600     6   752 *  AG      0   1.7     .0  15.2
F. SB Left   32 *     0   905     6   752 *  AG    324   1.7     .0  15.2
G. SB External  *     0  1505     0   905 *  AG    971   1.1     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG    647   1.7     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG   1911   1.7     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1911   1.1     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG      0   1.1     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG      0   1.7     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG   1679   1.7     .0  10.0
N. EB External  *   162   750   762   750 *  AG   1679   1.1     .0  10.0
O. WB External  *   762   755   162   755 *  AG   2528   1.1     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG   1264   1.7     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG      0   1.7     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG      0   1.1     .0  10.0
S. EB Left   0  *  -150   750     6   752 *  AG      0   1.7     .0  10.0
T. WB Left   12 *   162   755     6   752 *  AG   1264   1.7     .0  10.0
```



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

                JOB: Gibson - Channel
                RUN: Hour 1            (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    758   2.0
4. Receptor *     -3    758   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-----------------------------------------
1. Receptor *   87. *   1.0 *   .0   .2   .0   .0   .0   .0   .0   .0
2. Receptor *  358. *   1.1 *   .0   .0   .6   .1   .0   .0   .0   .0
3. Receptor *  182. *   1.2 *   .1   .6   .0   .0   .0   .0   .0   .0
4. Receptor *   93. *    .9 *   .0   .0   .2   .0   .0   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .3   .0   .0   .1   .0   .0   .0   .2
2. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .0   .0   .0   .0   .1   .0   .0   .2   .0   .0   .0   .2
```

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

                JOB: Pacific-Front
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    11     0    11   600 *  AG   3098   1.1     .0  13.7
B. NB Approach  *    11   600    11   756 *  AG   2065   1.7     .0  13.7
C. NB Depart    *    11   756    11   912 *  AG   2551   1.7     .0  13.7
D. NB External  *    11   912    11  1512 *  AG   2551   1.1     .0  13.7
E. NB Left   10 *    11   600     5   756 *  AG   1033   1.7     .0  13.7
F. SB Left   0  *     0   912     5   756 *  AG      0   1.7     .0  13.7
G. SB External  *     0  1512     0   912 *  AG   2511   1.1     .0  13.7
H. SB Approach  *     0   912     0   756 *  AG   2511   1.7     .0  13.7
I. SB Depart    *     0   756     0   600 *  AG   2160   1.7     .0  13.7
J. SB External  *     0   600     0     0 *  AG   2160   1.1     .0  13.7
K. EB External  *  -750   750  -150   750 *  AG    972   1.1     .0  15.2
L. EB Approach  *  -150   750     5   750 *  AG    486   1.7     .0  15.2
M. EB Depart    *     5   750   161   750 *  AG      0   1.7     .0  15.2
N. EB External  *   161   750   761   750 *  AG      0   1.1     .0  15.2
O. WB External  *   761   762   161   762 *  AG      0   1.1     .0  15.2
P. WB Approach  *   161   762     5   762 *  AG      0   1.7     .0  15.2
Q. WB Depart    *     5   762  -150   762 *  AG   1870   1.7     .0  15.2
R. WB External  *  -150   762  -750   762 *  AG   1870   1.1     .0  15.2
S. EB Left   48 *  -150   750     5   756 *  AG    486   1.7     .0  15.2
T. WB Left   0  *   161   762     5   756 *  AG      0   1.7     .0  15.2


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

                JOB: Pacific-Front
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     14    747   2.0
3. Receptor *     14    765   2.0
4. Receptor *     -3    765   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-------------------------------------------
1. Receptor *    3. *    .8 *   .0   .0   .0   .0   .0   .0   .0   .4
2. Receptor *  357. *    .7 *   .0   .0   .4   .0   .0   .0   .0   .0
3. Receptor *  183. *    .8 *   .0   .3   .0   .0   .1   .0   .0   .0
4. Receptor *  176. *    .9 *   .0   .0   .0   .0   .1   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .3   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
```

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

                JOB: Western - 19th
                RUN: Hour 1          (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM           ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   3320   1.1     .0  15.2
B. NB Approach  *    12   600    12   755 *  AG   2490   1.7     .0  15.2
C. NB Depart    *    12   755    12   911 *  AG   1967   1.7     .0  15.2
D. NB External  *    12   911    12  1511 *  AG   1967   1.1     .0  15.2
E. NB Left   83 *    12   600     6   755 *  AG    830   1.7     .0  15.2
F. SB Left   54 *     0   911     6   755 *  AG    546   1.7     .0  15.2
G. SB External  *     0  1511     0   911 *  AG   2184   1.1     .0  15.2
H. SB Approach  *     0   911     0   755 *  AG   1638   1.7     .0  15.2
I. SB Depart    *     0   755     0   600 *  AG   1399   1.7     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1399   1.1     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    844   1.1     .0  13.7
L. EB Approach  *  -150   750     6   750 *  AG    633   1.7     .0  13.7
M. EB Depart    *     6   750   162   750 *  AG   1798   1.7     .0  13.7
N. EB External  *   162   750   762   750 *  AG   1798   1.1     .0  13.7
O. WB External  *   762   761   162   761 *  AG    383   1.1     .0  13.7
P. WB Approach  *   162   761     6   761 *  AG    287   1.7     .0  13.7
Q. WB Depart    *     6   761  -150   761 *  AG   1567   1.7     .0  13.7
R. WB External  *  -150   761  -750   761 *  AG   1567   1.1     .0  13.7
S. EB Left   21 *  -150   750     6   755 *  AG    211   1.7     .0  13.7
T. WB Left   96 *   162   761     6   755 *  AG     96   1.7     .0  13.7

□□



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

                JOB: Western - 19th
                RUN: Hour 1          (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    764   2.0
4. Receptor *     -3    764   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-------------------------------------------
1. Receptor *    3. *    .7 *   .0   .0   .0   .0   .0   .0   .0   .3
2. Receptor *  357. *    .7 *   .0   .0   .3   .0   .0   .0   .0   .0
3. Receptor *  183. *    .8 *   .0   .4   .0   .0   .1   .0   .0   .0
4. Receptor *  175. *    .7 *   .0   .1   .0   .0   .1   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .2   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0

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

                JOB: Western - 1st
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S             Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE            VD=   .0 CM/S
     CLAS=     7 (G)             VS=   .0 CM/S
     MIXH= 1000. M               AMB=   .0 PPM
    SIGTH=    5. DEGREES        TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   3159   1.1     .0  15.2
B. NB Approach  *    12   600    12   755 *  AG   2369   1.7     .0  15.2
C. NB Depart    *    12   755    12   911 *  AG   2189   1.7     .0  15.2
D. NB External  *    12   911    12  1511 *  AG   2189   1.1     .0  15.2
E. NB Left   79 *    12   600     6   755 *  AG    790   1.7     .0  15.2
F. SB Left   97 *     0   911     6   755 *  AG    978   1.7     .0  15.2
G. SB External  *     0  1511     0   911 *  AG   3912   1.1     .0  15.2
H. SB Approach  *     0   911     0   755 *  AG   2934   1.7     .0  15.2
I. SB Depart    *     0   755     0   600 *  AG   2566   1.7     .0  15.2
J. SB External  *     0   600     0     0 *  AG   2566   1.1     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG   1673   1.1     .0  13.7
L. EB Approach  *  -150   750     6   750 *  AG   1255   1.7     .0  13.7
M. EB Depart    *     6   750   162   750 *  AG   2605   1.7     .0  13.7
N. EB External  *   162   750   762   750 *  AG   2605   1.1     .0  13.7
O. WB External  *   762   761   162   761 *  AG    769   1.1     .0  13.7
P. WB Approach  *   162   761     6   761 *  AG    577   1.7     .0  13.7
Q. WB Depart    *     6   761  -150   761 *  AG   2153   1.7     .0  13.7
R. WB External  *  -150   761  -750   761 *  AG   2153   1.1     .0  13.7
S. EB Left   41 *  -150   750     6   755 *  AG    418   1.7     .0  13.7
T. WB Left   19 *   162   761     6   755 *  AG    192   1.7     .0  13.7

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

                JOB: Western - 1st
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    764   2.0
4. Receptor *     -3    764   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
 RECEPTOR   * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*------*-------*-------------------------------------------
1. Receptor *    3. *   1.1 *   .0   .0   .0   .0   .0   .1   .0   .5
2. Receptor *  356. *    .9 *   .0   .0   .3   .0   .0   .1   .1   .1
3. Receptor *  183. *    .9 *   .0   .4   .0   .0   .1   .0   .0   .0
4. Receptor *  176. *   1.0 *   .0   .0   .0   .0   .0   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
 RECEPTOR   *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .1   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .1   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .4   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0

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

                JOB: Western - 9th
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   2821   1.1     .0  15.2
B. NB Approach  *    12   600    12   756 *  AG   2116   1.7     .0  15.2
C. NB Depart    *    12   756    12   912 *  AG   1748   1.7     .0  15.2
D. NB External  *    12   912    12  1512 *  AG   1748   1.1     .0  15.2
E. NB Left   70 *    12   600     6   756 *  AG    705   1.7     .0  15.2
F. SB Left   82 *     0   912     6   756 *  AG    824   1.7     .0  15.2
G. SB External  *     0  1512     0   912 *  AG   3295   1.1     .0  15.2
H. SB Approach  *     0   912     0   756 *  AG   2471   1.7     .0  15.2
I. SB Depart    *     0   756     0   600 *  AG   1984   1.7     .0  15.2
J. SB External  *     0   600     0     0 *  AG   1984   1.1     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    520   1.1     .0  15.2
L. EB Approach  *  -150   750     6   750 *  AG    390   1.7     .0  15.2
M. EB Depart    *     6   750   162   750 *  AG   1789   1.7     .0  15.2
N. EB External  *   162   750   762   750 *  AG   1789   1.1     .0  15.2
O. WB External  *   762   762   162   762 *  AG    828   1.1     .0  15.2
P. WB Approach  *   162   762     6   762 *  AG    621   1.7     .0  15.2
Q. WB Depart    *     6   762  -150   762 *  AG   1943   1.7     .0  15.2
R. WB External  *  -150   762  -750   762 *  AG   1943   1.1     .0  15.2
S. EB Left   13 *  -150   750     6   756 *  AG    130   1.7     .0  15.2
T. WB Left   20 *   162   762     6   756 *  AG    207   1.7     .0  15.2

□□



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

                JOB: Western - 9th
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    765   2.0
4. Receptor *     -3    765   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
  RECEPTOR  * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*-------*-------*-------------------------------------------
1. Receptor *    3. *    .9 *   .0   .0   .0   .0   .0   .1   .0   .4
2. Receptor *  356. *    .8 *   .0   .0   .3   .0   .0   .0   .0   .0
3. Receptor *  183. *    .8 *   .0   .3   .0   .0   .0   .0   .0   .0
4. Receptor *  176. *    .8 *   .0   .0   .0   .0   .0   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .3   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0

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

                JOB: Western - Dodson
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM            ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   3294   1.1     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   2196   1.7     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG   2362   1.7     .0  15.2
D. NB External  *    12   905    12  1505 *  AG   2362   1.1     .0  15.2
E. NB Left   10 *    12   600     6   752 *  AG   1098   1.7     .0  15.2
F. SB Left   0  *     0   905     6   752 *  AG      0   1.7     .0  15.2
G. SB External  *     0  1505     0   905 *  AG   3319   1.1     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG   3319   1.7     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG   2379   1.7     .0  15.2
J. SB External  *     0   600     0     0 *  AG   2379   1.1     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    332   1.1     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG    166   1.7     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG      0   1.7     .0  10.0
N. EB External  *   162   750   762   750 *  AG      0   1.1     .0  10.0
O. WB External  *   762   755   162   755 *  AG      0   1.1     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG      0   1.7     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG   2204   1.7     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG   2204   1.1     .0  10.0
S. EB Left   16 *  -150   750     6   752 *  AG    166   1.7     .0  10.0
T. WB Left   0  *   162   755     6   752 *  AG      0   1.7     .0  10.0

□□



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

                JOB: Western - Dodson
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


 III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    758   2.0
4. Receptor *     -3    758   2.0


  IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
 RECEPTOR   * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*------*-------*-------------------------------------------
1. Receptor *    2. *    .9 *   .0   .0   .0   .0   .0   .0   .0   .5
2. Receptor *  357. *    .7 *   .0   .0   .4   .0   .0   .0   .1   .0
3. Receptor *  183. *    .8 *   .0   .4   .0   .0   .1   .0   .0   .0
4. Receptor *  176. *    .9 *   .0   .0   .0   .0   .1   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
 RECEPTOR   *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-------------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .1   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .4   .0   .0   .0   .0   .0   .0   .0   .1   .0   .0   .0

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

                JOB: Western - Park Western
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM           ALT=    35. (M)
      BRG= WORST CASE           VD=   .0 CM/S
     CLAS=     7 (G)            VS=   .0 CM/S
     MIXH= 1000. M              AMB=   .0 PPM
    SIGTH=    5. DEGREES       TEMP=  4.0 DEGREE (C)


 II.  LINK VARIABLES

     LINK      *  LINK COORDINATES (M)   *              EF     H     W
  DESCRIPTION  *   X1    Y1    X2    Y2  * TYPE  VPH  (G/MI)  (M)   (M)
---------------*-------------------------*-----------------------------
A. NB External  *    12     0    12   600 *  AG   3547   1.1     .0  15.2
B. NB Approach  *    12   600    12   752 *  AG   2365   1.7     .0  15.2
C. NB Depart    *    12   752    12   905 *  AG   2533   1.7     .0  15.2
D. NB External  *    12   905    12  1505 *  AG   2533   1.1     .0  15.2
E. NB Left   11 *    12   600     6   752 *  AG   1182   1.7     .0  15.2
F. SB Left   0  *     0   905     6   752 *  AG      0   1.7     .0  15.2
G. SB External  *     0  1505     0   905 *  AG   3619   1.1     .0  15.2
H. SB Approach  *     0   905     0   752 *  AG   3619   1.7     .0  15.2
I. SB Depart    *     0   752     0   600 *  AG   2599   1.7     .0  15.2
J. SB External  *     0   600     0     0 *  AG   2599   1.1     .0  15.2
K. EB External  *  -750   750  -150   750 *  AG    354   1.1     .0  10.0
L. EB Approach  *  -150   750     6   750 *  AG    186   1.7     .0  10.0
M. EB Depart    *     6   750   162   750 *  AG      0   1.7     .0  10.0
N. EB External  *   162   750   762   750 *  AG      0   1.1     .0  10.0
O. WB External  *   762   755   162   755 *  AG      0   1.1     .0  10.0
P. WB Approach  *   162   755     6   755 *  AG      0   1.7     .0  10.0
Q. WB Depart    *     6   755  -150   755 *  AG   2388   1.7     .0  10.0
R. WB External  *  -150   755  -750   755 *  AG   2388   1.1     .0  10.0
S. EB Left   16 *  -150   750     6   752 *  AG    168   1.7     .0  10.0
T. WB Left   0  *   162   755     6   752 *  AG      0   1.7     .0  10.0


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

                JOB: Western - Park Western
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


III.  RECEPTOR LOCATIONS

            *    COORDINATES (M)
  RECEPTOR  *    X       Y      Z
------------*--------------------
1. Receptor *     -3    747   2.0
2. Receptor *     15    747   2.0
3. Receptor *     15    758   2.0
4. Receptor *     -3    758   2.0


 IV.  MODEL RESULTS (WORST CASE WIND ANGLE )

            *       * PRED  *                CONC/LINK
            *  BRG  * CONC  *                  (PPM)
 RECEPTOR   * (DEG) * (PPM) *   A    B    C    D    E    F    G    H
------------*------*-------*-----------------------------------------
1. Receptor *    2. *   1.0 *   .0   .0   .0   .0   .0   .0   .1   .6
2. Receptor *  183. *    .9 *   .0   .4   .0   .0   .2   .0   .0   .0
3. Receptor *  183. *    .9 *   .0   .4   .0   .0   .2   .0   .0   .0
4. Receptor *  176. *   1.0 *   .1   .0   .0   .0   .1   .0   .0   .0


            *                        CONC/LINK
            *                          (PPM)
 RECEPTOR   *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .1   .0   .0   .0
2. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
3. Receptor *   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0   .0
4. Receptor *   .4   .0   .0   .0   .0   .0   .0   .0   .1   .0   .0   .0
```