Appendix B2 Air Quality Data (Sylmar)

Sylmar Assumptions & Calculations

Sylmar
Assumptions

CalEEMod

Project Characteristics:

Project Name:	Sylmar Existing Conditions	(SylExist)	
	Sylmar Growth Only Unmitigated		
	Sylmar Growth Only Mitigated		
Project Location:	County - Los Angeles (SC)		
windspeed (m/s)	2.2	default	
precipitation (days)	33	default	
Climate zone	11		
Landuse Setting	Urban		
Operational Year	2005/2030		
Utility Company	LADWP	default emission factors for operational year	

Land Use Types:

Project Sheet	CalEEMod category
Single Family	Single Family
Multi-Family	Apartment low rise
Commercial	General Office Building
	*Includes open space building square footages and acerages
Industrial	Industrial Park

Construction: No construction

Operational:

Mobile: Trip Rates left as program default
Vehicle Emissions left as default
Road Dust left as default

Area:	Hearths (2005):	Woodstove use:	Apartment -	# catalytic 121.8, # non-catalytic 121.8 (program Default)
			SF -	# catalytic 648.05, # non-catalytic 648.05 (program default)
		Fireplaces:	Apartment -	# wood 121.8, # gas - 2070.6, # No Fireplace - 243.6 (program default)
			SF -	# wood 648.05, #gas - 11,016.85, # no fireplace - 1,296.1 (prgram default)
	Hearths (2030 Growth)	Woodstove use:	Apartment -	# catalytic 265.75, # non-catalytic 265.75 (program Default)
			SF -	# catalytic 126.85, # non-catalytic 126.85 (program default)
		Fireplaces:	Apartment -	# wood 265.75, # gas - 4517.75, # No Fireplace - 531.5 (program default)
			SF -	# wood 126.85, #gas - 2156.48, # no fireplace - 253.7 (prgram default)
	Hearths (2030)	Woodstove use:	Apartment -	# catalytic 387.55, # non-catalytic 387.55 (program Default)
			SF -	# catalytic 774.9, # non-catalytic 774.9 (program default)
		Fireplaces:	Apartment -	# wood 387.55, # gas - 6588.35, # No Fireplace - 775.1 (program default)
			SF -	# wood 774.9, #gas - 13,176.3, # no fireplace - 1,549.8 (prgram default)

Sylmar
Assumptions

Consumer Products:	Program Default
Architectural Coating:	Program Default
Landscape Equip:	Program Default
Energy Use:	2005: Used Historic Data Defaults
	2030: Program Defaults
Water/Waste water:	Program Defaults
Solid Waste:	Program Defaults
Vegetation	Ignored

Mitigation:

2005: No mitigation implemented

2030: TIMP Reduction

0.4647%	% reduction
346010	w/o
344402	w

Other as identified on summary sheets.

Sylmar
Criteria Pollutant Summary

Unmitigated (lbs/day

	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Existing						
Area	2,597	286	6,683	14	836	836
Mobile	2,469	5,370	23,241	36	1,998	224
Total	5,066	5,656	29,924	49	2,834	1,059
2030						
Area	3,694	376	9,749	20	1,259	1,259
Mobile	857	1,984	6,560	24	2,819	153
Total	4,551	2,359	16,309	44	4,078	1,413
Growth						
Area	1,097	89	3,067	7	424	423
Mobile	(1,613)	(3,386)	(16,681)	(11)	820	(70)
Total	(516)	(3,297)	(13,614)	(5)	1,244	353
SCAQMD Thresholds	55	55	550		150	55
Significant?	**No**	**No**	**No**		**Yes**	**Yes**

Mitigated (lbs/day)

	ROG	NO_X	CO	PM_{10}	$PM_{2.5}$
Existing					
Area	2,597	286	6,683	836	836
Mobile	2,469	5,370	23,241	1,998	224
Total	5,066	5,656	29,924	2,834	1,059
Total 2030 Mitigated					
Area	3,694	376	9,749	1,259	1,259
Mobile	857	1,984	6,560	2,538	138
Total	4,551	2,359	16,309	3,798	1,397
2030 Growth					
Area	1,097	89	3,067	424	423
Mobile	(1,613)	(3,386)	(16,681)	540	(85)
Total	(516)	(3,297)	(13,614)	964	338
SCAQMD Thresholds	55	55	550	150	55
Significant?	**No**	**No**	**No**	**Yes**	**Yes**

Reductions:

Reduction in VMT from Growth:	31.92%
Growth is X% of 2030 Total:	30.50%
Reduction in VMT from 2030 total:	9.74%
% of Fleet that are Heavy Duty Diesel Trucks (DPM Filter):	1.90%
% Emission HDT:	10.89%
Reduction in VMT from DPM Filter:	0.21%
Total reduction in Mobile PM:	9.94%

Sylmar NCP
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
Encinitas Ave / Rockford	F	2,708	2.4	3.0	**5.4**	1.7	2.9	**4.6**	20	9
Encinitas Ave / Cobalt	F	1,358	1.7	3.0	**4.7**	1.2	2.9	**4.1**	20	9
TelFaire Ave / Rockford	F	2,623	2.5	3.0	**5.5**	1.8	2.9	**4.7**	20	9
San Fernando / Colbolt	F	1,896	1.7	3.0	**4.7**	1.2	2.9	**4.1**	20	9
Foothill / Astoria	F	2,841	2.6	3.0	**5.6**	1.8	2.9	**4.7**	20	9
Foothill / Hubbard	E	4,773	3.1	3.0	**6.1**	2.2	2.9	**5.1**	20	9
Foothill / Sayre	E	2,837	2.6	3.0	**5.6**	1.8	2.9	**4.7**	20	9
Foothill / McClay	E	3,719	2.8	3.0	**5.8**	2.0	2.9	**4.9**	20	9
Bradley / Rockford	E	1,322	1.4	3.0	**4.4**	1.0	2.9	**3.9**	20	9
Herrick / Rockford	E	1,093	1.3	3.0	**4.3**	0.9	2.9	**3.8**	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
San Fern. / Tyler	F	2,761	0.4	3.0	**3.4**	0.3	2.9	**3.2**	20	9
San Fern. / Polk	F	3,591	0.5	3.0	**3.5**	0.4	2.9	**3.3**	20	9
San Fern. / Astoria	F	2,981	0.5	3.0	**3.5**	0.4	2.9	**3.3**	20	9
Foothill Blvd / Balboa Blvd	F	4,939	0.6	3.0	**3.6**	0.4	2.9	**3.3**	20	9
Foothill Blvd / Yarnell	F	3,682	0.5	3.0	**3.5**	0.4	2.9	**3.3**	20	9
Foothill Blvd / Sayer	F	4,539	0.6	3.0	**3.6**	0.4	2.9	**3.3**	20	9
Foothill Blvd / Hubbard	F	5,280	0.6	3.0	**3.6**	0.4	2.9	**3.3**	20	9
Foothill Blvd / McClay	F	4,784	0.6	3.0	**3.6**	0.4	2.9	**3.3**	20	9
Foothill Blvd / Rockford	F	3,155	0.4	3.0	**3.4**	0.3	2.9	**3.2**	20	9
Foothill Blvd / Astoria	F	4,455	0.6	3.0	**3.6**	0.4	2.9	**3.3**	20	9

Sylmar CO 2005 Output

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

JOB: Syl Bradley & Rockford PM 2005
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	*	10	0	10	600	* AG	153	6.5	.0	12.8
B. NB Approach	*	10	600	10	758	* AG	115	11.6	.0	12.8
C. NB Depart	*	10	758	10	916	* AG	366	11.6	.0	12.8
D. NB External	*	10	916	10	1516	* AG	366	6.5	.0	12.8
E. NB Left 38	*	10	600	5	758	* AG	38	11.6	.0	12.8
F. SB Left 4	*	0	916	5	758	* AG	4	11.6	.0	12.8
G. SB External	*	0	1516	0	916	* AG	14	6.5	.0	12.8
H. SB Approach	*	0	916	0	758	* AG	10	11.6	.0	12.8
I. SB Depart	*	0	758	0	600	* AG	295	11.6	.0	12.8
J. SB External	*	0	600	0	0	* AG	295	6.5	.0	12.8
K. EB External	*	-750	750	-150	750	* AG	767	6.5	.0	18.9
L. EB Approach	*	-150	750	5	750	* AG	575	11.6	.0	18.9
M. EB Depart	*	5	750	160	750	* AG	425	11.6	.0	18.9
N. EB External	*	160	750	760	750	* AG	425	6.5	.0	18.9
O. WB External	*	760	766	160	766	* AG	388	6.5	.0	18.9
P. WB Approach	*	160	766	5	766	* AG	291	11.6	.0	18.9
Q. WB Depart	*	5	766	-150	766	* AG	236	11.6	.0	18.9
R. WB External	*	-150	766	-750	766	* AG	236	6.5	.0	18.9
S. EB Left 19	*	-150	750	5	758	* AG	192	11.6	.0	18.9
T. WB Left 97	*	160	766	5	758	* AG	97	11.6	.0	18.9

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

JOB: Syl Bradley & Rockford PM 2005
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	*	13	747	2.0
3. Receptor	*	13	769	2.0
4. Receptor	*	-3	769	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	* 87.	* 1.1	*	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	* 272.	* 1.4	*	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	* 264.	* 1.0	*	.0	.0	.1	.0	.0	.0	.0	.0
4. Receptor	* 178.	* 1.0	*	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	*	.0	.0	.0	.0	.5	.1	.1	.0	.0	.0	.0	.0
2. Receptor	*	.1	.0	.2	.7	.0	.0	.0	.0	.0	.0	.2	.0
3. Receptor	*	.0	.0	.2	.2	.0	.0	.0	.0	.3	.0	.2	.0
4. Receptor	*	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0

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

JOB: Syl Encinitas Ave & Cobalt PM 2005
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	14	0	14	600	AG	185	6.5	.0	16.7
B. NB Approach	14	600	14	755	AG	123	11.6	.0	16.7
C. NB Depart	14	755	14	910	AG	311	11.6	.0	16.7
D. NB External	14	910	14	1510	AG	311	6.5	.0	16.7
E. NB Left 62	14	600	7	755	AG	62	11.6	.0	16.7
F. SB Left 0	0	910	7	755	AG	0	11.6	.0	16.7
G. SB External	0	1510	0	910	AG	797	6.5	.0	16.7
H. SB Approach	0	910	0	755	AG	797	11.6	.0	16.7
I. SB Depart	0	755	0	600	AG	719	11.6	.0	16.7
J. SB External	0	600	0	0	AG	719	6.5	.0	16.7
K. EB External	-750	750	-150	750	AG	376	6.5	.0	12.8
L. EB Approach	-150	750	7	750	AG	188	11.6	.0	12.8
M. EB Depart	7	750	164	750	AG	0	11.6	.0	12.8
N. EB External	164	750	764	750	AG	0	6.5	.0	12.8
O. WB External	764	760	164	760	AG	0	6.5	.0	12.8
P. WB Approach	164	760	7	760	AG	0	11.6	.0	12.8
Q. WB Depart	7	760	-150	760	AG	328	11.6	.0	12.8
R. WB External	-150	760	-750	760	AG	328	6.5	.0	12.8
S. EB Left 18	-150	750	7	755	AG	188	11.6	.0	12.8
T. WB Left 0	164	760	7	755	AG	0	11.6	.0	12.8

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

JOB: Syl Encinitas Ave & Cobalt PM 2005
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	17	747	2.0
3. Receptor	17	763	2.0
4. Receptor	-3	763	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	2.	1.7	.0	.0	.0	.1	.0	.0	.2	1.0
2. Receptor	273.	1.1	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	267.	1.3	.0	.0	.0	.0	.0	.0	.0	.2
4. Receptor	178.	1.6	.0	.0	.0	.0	.0	.0	.0	.1

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
2. Receptor	.2	.0	.0	.3	.0	.0	.0	.0	.1	.1	.2	.0
3. Receptor	.0	.0	.1	.0	.0	.0	.0	.0	.5	.0	.2	.0
4. Receptor	.9	.2	.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: Syl Encinitas Ave & Rockford PM 2005
               RUN: Hour 1          (WORST CASE ANGLE)
        POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

         U=   1.0 M/S            Z0= 100. CM           ALT=   366. (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=  4.4 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  *    14     0    14   600 *  AG    371   6.5     .0  16.7
B. NB Approach  *    14   600    14   758 *  AG    278  11.6     .0  16.7
C. NB Depart    *    14   758    14   916 *  AG    571  11.6     .0  16.7
D. NB External  *    14   916    14  1516 *  AG    571   6.5     .0  16.7
E. NB Left   93 *    14   600     7   758 *  AG     93  11.6     .0  16.7
F. SB Left   19 *     0   916     7   758 *  AG    199  11.6     .0  16.7
G. SB External  *     0  1516     0   916 *  AG    797   6.5     .0  16.7
H. SB Approach  *     0   916     0   758 *  AG    598  11.6     .0  16.7
I. SB Depart    *     0   758     0   600 *  AG    785  11.6     .0  16.7
J. SB External  *     0   600     0     0 *  AG    785   6.5     .0  16.7
K. EB External  *  -750   750  -150   750 *  AG    346   6.5     .0  18.9
L. EB Approach  *  -150   750     7   750 *  AG    259  11.6     .0  18.9
M. EB Depart    *     7   750   164   750 *  AG    464  11.6     .0  18.9
N. EB External  *   164   750   764   750 *  AG    464   6.5     .0  18.9
O. WB External  *   764   766   164   766 *  AG   1194   6.5     .0  18.9
P. WB Approach  *   164   766     7   766 *  AG    895  11.6     .0  18.9
Q. WB Depart    *     7   766  -150   766 *  AG    888  11.6     .0  18.9
R. WB External  *  -150   766  -750   766 *  AG    888   6.5     .0  18.9
S. EB Left   87 *  -150   750     7   758 *  AG     87  11.6     .0  18.9
T. WB Left   29 *   164   766     7   758 *  AG    299  11.6     .0  18.9


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

               JOB: Syl Encinitas Ave & Rockford PM 2005
               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 *     17    747   2.0
3. Receptor *     17    769   2.0
4. Receptor *     -3    769   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. *   2.0 *  .0   .0   .1   .2   .0   .2   .2   .7
2. Receptor *  356. *   1.9 *  .0   .0   .7   .0   .0   .2   .2   .2
3. Receptor *  268. *   2.0 *  .0   .0   .2   .0   .0   .0   .0   .2
4. Receptor *   92. *   2.4 *  .0   .0   .2   .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   .0   .0   .0   .0   .3   .0   .0   .0
2. Receptor *  .0   .0   .0   .0   .1   .0   .0   .3   .0   .0   .0   .1
3. Receptor *  .0   .0   .1   .0   .0   .0   .0   .2  1.0   .2   .0   .0
4. Receptor *  .0   .0   .0   .0   .0   .1   .3  1.0   .2   .0   .0   .3
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CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: Syl Foothill & Astoria PM 2005
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	16	0	16	600	AG	1389	6.5	.0	18.9
B. NB Approach	16	600	16	755	AG	1042	11.6	.0	18.9
C. NB Depart	16	755	16	910	AG	867	11.6	.0	18.9
D. NB External	16	910	16	1510	AG	867	6.5	.0	18.9
E. NB Left 34	16	600	8	755	AG	347	11.6	.0	18.9
F. SB Left 19	0	910	8	755	AG	191	11.6	.0	18.9
G. SB External	0	1510	0	910	AG	765	6.5	.0	18.9
H. SB Approach	0	910	0	755	AG	574	11.6	.0	18.9
I. SB Depart	0	755	0	600	AG	555	11.6	.0	18.9
J. SB External	0	600	0	0	AG	555	6.5	.0	18.9
K. EB External	-750	750	-150	750	AG	156	6.5	.0	12.8
L. EB Approach	-150	750	8	750	AG	117	11.6	.0	12.8
M. EB Depart	8	750	166	750	AG	616	11.6	.0	12.8
N. EB External	166	750	766	750	AG	616	6.5	.0	12.8
O. WB External	766	760	166	760	AG	531	6.5	.0	12.8
P. WB Approach	166	760	8	760	AG	398	11.6	.0	12.8
Q. WB Depart	8	760	-150	760	AG	803	11.6	.0	12.8
R. WB External	-150	760	-750	760	AG	803	6.5	.0	12.8
S. EB Left 39	-150	750	8	755	AG	39	11.6	.0	12.8
T. WB Left 13	166	760	8	755	AG	133	11.6	.0	12.8

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

JOB: Syl Foothill & Astoria PM 2005
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	19	747	2.0
3. Receptor	19	763	2.0
4. Receptor	-3	763	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	87.	2.0	.0	.3	.0	.0	.1	.0	.0	.0
2. Receptor	357.	2.1	.0	.2	1.0	.2	.0	.0	.2	.0
3. Receptor	182.	2.6	.3	1.2	.1	.0	.3	.0	.0	.0
4. Receptor	93.	2.0	.0	.0	.3	.0	.0	.0	.0	.2

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	.1	.0	.0	.0	.8	.1	.2	.1	.0	.0	.0	.1
2. Receptor	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
3. Receptor	.0	.2	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
4. Receptor	.0	.0	.0	.0	.2	.2	.1	.6	.3	.0	.0	.2

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

                JOB: Syl Foothill & Hubbard PM 2005
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

         U=   1.0 M/S             Z0= 100. CM            ALT=   366. (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=  4.4 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  *    16     0    16   600 *  AG   1299   6.5     .0  18.9
B. NB Approach  *    16   600    16   758 *  AG    974  11.6     .0  18.9
C. NB Depart    *    16   758    16   916 *  AG   1231  11.6     .0  18.9
D. NB External  *    16   916    16  1516 *  AG   1231   6.5     .0  18.9
E. NB Left   32 *    16   600     8   758 *  AG    325  11.6     .0  18.9
F. SB Left   28 *     0   916     8   758 *  AG    287  11.6     .0  18.9
G. SB External  *     0  1516     0   916 *  AG   1148   6.5     .0  18.9
H. SB Approach  *     0   916     0   758 *  AG    861  11.6     .0  18.9
I. SB Depart    *     0   758     0   600 *  AG   1156  11.6     .0  18.9
J. SB External  *     0   600     0     0 *  AG   1156   6.5     .0  18.9
K. EB External  *  -750   750  -150   750 *  AG   1070   6.5     .0  18.9
L. EB Approach  *  -150   750     8   750 *  AG    802  11.6     .0  18.9
M. EB Depart    *     8   750   166   750 *  AG   1146  11.6     .0  18.9
N. EB External  *   166   750   766   750 *  AG   1146   6.5     .0  18.9
O. WB External  *   766   766   166   766 *  AG   1256   6.5     .0  18.9
P. WB Approach  *   166   766     8   766 *  AG    942  11.6     .0  18.9
Q. WB Depart    *     8   766  -150   766 *  AG   1240  11.6     .0  18.9
R. WB External  *  -150   766  -750   766 *  AG   1240   6.5     .0  18.9
S. EB Left   26 *  -150   750     8   758 *  AG    268  11.6     .0  18.9
T. WB Left   31 *   166   766     8   758 *  AG    314  11.6     .0  18.9
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          CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
                   JUNE 1989 VERSION
                   PAGE   2

                JOB: Syl Foothill & Hubbard PM 2005
                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 *     19    747   2.0
3. Receptor *     19    769   2.0
4. Receptor *     -3    769   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 *   86. *   3.0 *   .0   .3   .0   .0   .1   .0   .0   .0
2. Receptor *  357. *   3.0 *   .0   .2  1.3   .2   .0   .1   .3   .1
3. Receptor *  183. *   3.1 *   .2  1.1   .3   .0   .3   .0   .0   .0
4. Receptor *   93. *   3.0 *   .0   .0   .4   .0   .0   .1   .0   .2


            *                        CONC/LINK
            *                          (PPM)
  RECEPTOR  *   I    J    K    L    M    N    O    P    Q    R    S    T
------------*-----------------------------------------------------------
1. Receptor *   .3   .0   .0   .2  1.2   .2   .3   .2   .0   .0   .0   .2
2. Receptor *   .0   .0   .0   .0   .3   .0   .0   .3   .0   .0   .0   .1
3. Receptor *   .2   .3   .0   .0   .3   .0   .0   .2   .0   .0   .0   .1
4. Receptor *   .0   .0   .0   .0   .2   .3   .2  1.0   .3   .0   .0   .3
```

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

JOB: Syl Foothill & McClay PM 2005
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	*	16	0	16	600	* AG	1348	6.5	.0	18.9
B. NB Approach	*	16	600	16	757	* AG	1011	11.6	.0	18.9
C. NB Depart	*	16	757	16	914	* AG	956	11.6	.0	18.9
D. NB External	*	16	914	16	1514	* AG	956	6.5	.0	18.9
E. NB Left 33	*	16	600	8	757	* AG	337	11.6	.0	18.9
F. SB Left 31	*	0	914	8	757	* AG	311	11.6	.0	18.9
G. SB External	*	0	1514	0	914	* AG	1244	6.5	.0	18.9
H. SB Approach	*	0	914	0	757	* AG	933	11.6	.0	18.9
I. SB Depart	*	0	757	0	600	* AG	904	11.6	.0	18.9
J. SB External	*	0	600	0	0	* AG	904	6.5	.0	18.9
K. EB External	*	-750	750	-150	750	* AG	388	6.5	.0	16.7
L. EB Approach	*	-150	750	8	750	* AG	291	11.6	.0	16.7
M. EB Depart	*	8	750	166	750	* AG	842	11.6	.0	16.7
N. EB External	*	166	750	766	750	* AG	842	6.5	.0	16.7
O. WB External	*	766	764	166	764	* AG	739	6.5	.0	16.7
P. WB Approach	*	166	764	8	764	* AG	554	11.6	.0	16.7
Q. WB Depart	*	8	764	-150	764	* AG	1017	11.6	.0	16.7
R. WB External	*	-150	764	-750	764	* AG	1017	6.5	.0	16.7
S. EB Left 97	*	-150	750	8	757	* AG	97	11.6	.0	16.7
T. WB Left 18	*	166	764	8	757	* AG	185	11.6	.0	16.7

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

JOB: Syl Foothill & McClay PM 2005
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	*	19	747	2.0
3. Receptor	*	19	767	2.0
4. Receptor	*	-3	767	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	* 3.	* 2.6	*	.0	.0	.1	.3	.0	.3	.2	1.0
2. Receptor	* 356.	* 2.6	*	.0	.2	1.0	.1	.0	.2	.3	.2
3. Receptor	* 183.	* 2.8	*	.3	1.1	.2	.0	.3	.0	.0	.0
4. Receptor	* 176.	* 2.5	*	.3	.2	.0	.0	.2	.0	.0	.2

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	*	.2	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
2. Receptor	*	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0
3. Receptor	*	.1	.3	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0
4. Receptor	*	1.0	.1	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0

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

JOB: Syl Foothill & Sayre PM 2005
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	*	16	0	16	600	* AG	1482	6.5	.0	18.9
B. NB Approach	*	16	600	16	755	* AG	1111	11.6	.0	18.9
C. NB Depart	*	16	755	16	910	* AG	798	11.6	.0	18.9
D. NB External	*	16	910	16	1510	* AG	798	6.5	.0	18.9
E. NB Left 37	*	16	600	8	755	* AG	371	11.6	.0	18.9
F. SB Left 28	*	0	910	8	755	* AG	281	11.6	.0	18.9
G. SB External	*	0	1510	0	910	* AG	1125	6.5	.0	18.9
H. SB Approach	*	0	910	0	755	* AG	844	11.6	.0	18.9
I. SB Depart	*	0	755	0	600	* AG	621	11.6	.0	18.9
J. SB External	*	0	600	0	0	* AG	621	6.5	.0	18.9
K. EB External	*	-750	750	-150	750	* AG	75	6.5	.0	12.8
L. EB Approach	*	-150	750	8	750	* AG	56	11.6	.0	12.8
M. EB Depart	*	8	750	166	750	* AG	689	11.6	.0	12.8
N. EB External	*	166	750	766	750	* AG	689	6.5	.0	12.8
O. WB External	*	766	760	166	760	* AG	155	6.5	.0	12.8
P. WB Approach	*	166	760	8	760	* AG	116	11.6	.0	12.8
Q. WB Depart	*	8	760	-150	760	* AG	729	11.6	.0	12.8
R. WB External	*	-150	760	-750	760	* AG	729	6.5	.0	12.8
S. EB Left 19	*	-150	750	8	755	* AG	19	11.6	.0	12.8
T. WB Left 39	*	166	760	8	755	* AG	39	11.6	.0	12.8

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

JOB: Syl Foothill & Sayre PM 2005
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	*	19	747	2.0
3. Receptor	*	19	763	2.0
4. Receptor	*	-3	763	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	*	3.	*	2.2	*	.0	.0	.1	.2	.0	.3	.2	1.0
2. Receptor	*	356.	*	2.1	*	.0	.2	.9	.1	.0	.2	.3	.2
3. Receptor	*	182.	*	2.6	*	.4	1.3	.1	.0	.3	.0	.0	.0
4. Receptor	*	175.	*	2.0	*	.3	.3	.0	.0	.3	.0	.0	.1

RECEPTOR	*	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
2. Receptor	*	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
3. Receptor	*	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
4. Receptor	*	.7	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0

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

JOB: Syl Herrick & Rockford PM 2005
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	10	0	10	600	AG	267	6.5	.0	12.8
B. NB Approach	10	600	10	758	AG	200	11.6	.0	12.8
C. NB Depart	10	758	10	916	AG	334	11.6	.0	12.8
D. NB External	10	916	10	1516	AG	334	6.5	.0	12.8
E. NB Left 67	10	600	5	758	AG	67	11.6	.0	12.8
F. SB Left 6	0	916	5	758	AG	6	11.6	.0	12.8
G. SB External	0	1516	0	916	AG	24	6.5	.0	12.8
H. SB Approach	0	916	0	758	AG	18	11.6	.0	12.8
I. SB Depart	0	758	0	600	AG	213	11.6	.0	12.8
J. SB External	0	600	0	0	AG	213	6.5	.0	12.8
K. EB External	-750	750	-150	750	AG	659	6.5	.0	18.9
L. EB Approach	-150	750	5	750	AG	494	11.6	.0	18.9
M. EB Depart	5	750	160	750	AG	402	11.6	.0	18.9
N. EB External	160	750	760	750	AG	402	6.5	.0	18.9
O. WB External	760	766	160	766	AG	143	6.5	.0	18.9
P. WB Approach	160	766	5	766	AG	107	11.6	.0	18.9
Q. WB Depart	5	766	-150	766	AG	144	11.6	.0	18.9
R. WB External	-150	766	-750	766	AG	144	6.5	.0	18.9
S. EB Left 16	-150	750	5	758	AG	165	11.6	.0	18.9
T. WB Left 36	160	766	5	758	AG	36	11.6	.0	18.9

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

JOB: Syl Herrick & Rockford PM 2005
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	13	747	2.0
3. Receptor	13	769	2.0
4. Receptor	-3	769	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	88.	1.0	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	272.	1.3	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	183.	.9	.0	.3	.1	.0	.0	.0	.0	.0
4. Receptor	177.	.9	.0	.0	.0	.0	.0	.0	.0	.0

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

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

                JOB: Syl San Fernando & Colbalt PM 2005
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide
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I. SITE VARIABLES

```
        U=   1.0 M/S            Z0= 100. CM           ALT=   366. (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=  4.4 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	16	0	16	600	AG	603	6.5	.0	18.9
B. NB Approach	16	600	16	755	AG	452	11.6	.0	18.9
C. NB Depart	16	755	16	910	AG	492	11.6	.0	18.9
D. NB External	16	910	16	1510	AG	492	6.5	.0	18.9
E. NB Left 15	16	600	8	755	AG	151	11.6	.0	18.9
F. SB Left 13	0	910	8	755	AG	132	11.6	.0	18.9
G. SB External	0	1510	0	910	AG	528	6.5	.0	18.9
H. SB Approach	0	910	0	755	AG	396	11.6	.0	18.9
I. SB Depart	0	755	0	600	AG	455	11.6	.0	18.9
J. SB External	0	600	0	0	AG	455	6.5	.0	18.9
K. EB External	-750	750	-150	750	AG	621	6.5	.0	12.8
L. EB Approach	-150	750	8	750	AG	466	11.6	.0	12.8
M. EB Depart	8	750	166	750	AG	594	11.6	.0	12.8
N. EB External	166	750	766	750	AG	594	6.5	.0	12.8
O. WB External	766	760	166	760	AG	144	6.5	.0	12.8
P. WB Approach	166	760	8	760	AG	108	11.6	.0	12.8
Q. WB Depart	8	760	-150	760	AG	355	11.6	.0	12.8
R. WB External	-150	760	-750	760	AG	355	6.5	.0	12.8
S. EB Left 15	-150	750	8	755	AG	155	11.6	.0	12.8
T. WB Left 36	166	760	8	755	AG	36	11.6	.0	12.8

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

                JOB: Syl San Fernando & Colbalt PM 2005
                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	19	747	2.0
3. Receptor	19	763	2.0
4. Receptor	-3	763	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	88.	1.6	.0	.1	.0	.0	.0	.0	.0	.0
2. Receptor	273.	1.7	.0	.1	.0	.0	.0	.0	.0	.0
3. Receptor	183.	1.4	.1	.5	.0	.0	.2	.0	.0	.0
4. Receptor	176.	1.4	.2	.0	.0	.0	.1	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	.1	.0	.0	.2	.8	.2	.0	.0	.0	.0	.0	.0
2. Receptor	.1	.0	.1	.6	.2	.0	.0	.0	.1	.1	.2	.0
3. Receptor	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
4. Receptor	.5	.0	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0

□□

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

JOB: Syl Telfaire Ave & Rockford PM 2005
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	10	0	10	600	AG	273	6.5	.0	12.8
B. NB Approach	10	600	10	758	AG	205	11.6	.0	12.8
C. NB Depart	10	758	10	916	AG	459	11.6	.0	12.8
D. NB External	10	916	10	1516	AG	459	6.5	.0	12.8
E. NB Left 68	10	600	5	758	AG	68	11.6	.0	12.8
F. SB Left 26	0	916	5	758	AG	266	11.6	.0	12.8
G. SB External	0	1516	0	916	AG	1063	6.5	.0	12.8
H. SB Approach	0	916	0	758	AG	797	11.6	.0	12.8
I. SB Depart	0	758	0	600	AG	853	11.6	.0	12.8
J. SB External	0	600	0	0	AG	853	6.5	.0	12.8
K. EB External	-750	750	-150	750	AG	644	6.5	.0	18.9
L. EB Approach	-150	750	5	750	AG	483	11.6	.0	18.9
M. EB Depart	5	750	160	750	AG	656	11.6	.0	18.9
N. EB External	160	750	760	750	AG	656	6.5	.0	18.9
O. WB External	760	766	160	766	AG	643	6.5	.0	18.9
P. WB Approach	160	766	5	766	AG	482	11.6	.0	18.9
Q. WB Depart	5	766	-150	766	AG	655	11.6	.0	18.9
R. WB External	-150	766	-750	766	AG	655	6.5	.0	18.9
S. EB Left 16	-150	750	5	758	AG	161	11.6	.0	18.9
T. WB Left 16	160	766	5	758	AG	161	11.6	.0	18.9

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

JOB: Syl Telfaire Ave & Rockford PM 2005
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	13	747	2.0
3. Receptor	13	769	2.0
4. Receptor	-3	769	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	2.	2.5	.0	.0	.1	.1	.0	.3	.2	1.1
2. Receptor	356.	2.0	.0	.0	.6	.0	.0	.3	.2	.3
3. Receptor	267.	1.9	.0	.0	.1	.0	.0	.1	.0	.3
4. Receptor	178.	2.2	.0	.0	.0	.0	.0	.0	.0	.3

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	.3	.0	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0
2. Receptor	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
3. Receptor	.0	.0	.2	.0	.0	.0	.0	.0	.8	.2	.0	.0
4. Receptor	1.1	.2	.0	.1	.0	.0	.0	.0	.2	.0	.0	.0

Sylmar CO 2030 Output

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

JOB: Syl Foothill & Astoria PM 2030
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	16	0	16	600	AG	1897	1.2	.0	18.9
B. NB Approach	16	600	16	755	AG	1423	1.8	.0	18.9
C. NB Depart	16	755	16	910	AG	1276	1.8	.0	18.9
D. NB External	16	910	16	1510	AG	1276	1.2	.0	18.9
E. NB Left 47	16	600	8	755	AG	474	1.8	.0	18.9
F. SB Left 31	0	910	8	755	AG	314	1.8	.0	18.9
G. SB External	0	1510	0	910	AG	1254	1.2	.0	18.9
H. SB Approach	0	910	0	755	AG	940	1.8	.0	18.9
I. SB Depart	0	755	0	600	AG	953	1.8	.0	18.9
J. SB External	0	600	0	0	AG	953	1.2	.0	18.9
K. EB External	-750	750	-150	750	AG	214	1.2	.0	12.8
L. EB Approach	-150	750	8	750	AG	160	1.8	.0	12.8
M. EB Depart	8	750	166	750	AG	894	1.8	.0	12.8
N. EB External	166	750	766	750	AG	894	1.2	.0	12.8
O. WB External	766	760	166	760	AG	1090	1.2	.0	12.8
P. WB Approach	166	760	8	760	AG	817	1.8	.0	12.8
Q. WB Depart	8	760	-150	760	AG	1332	1.8	.0	12.8
R. WB External	-150	760	-750	760	AG	1332	1.2	.0	12.8
S. EB Left 54	-150	750	8	755	AG	54	1.8	.0	12.8
T. WB Left 27	166	760	8	755	AG	273	1.8	.0	12.8

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

JOB: Syl Foothill & Astoria PM 2030
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	19	747	2.0
3. Receptor	19	763	2.0
4. Receptor	-3	763	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	87.	.5	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	357.	.5	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	182.	.6	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	93.	.5	.0	.0	.0	.0	.0	.0	.0	.0

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

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

JOB: Syl Foothill & Balboa PM 2030
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	16	0	16	600	AG	2156	1.2	.0	18.9
B. NB Approach	16	600	16	758	AG	1437	1.8	.0	18.9
C. NB Depart	16	758	16	916	AG	2515	1.8	.0	18.9
D. NB External	16	916	16	1516	AG	2515	1.2	.0	18.9
E. NB Left 71	16	600	8	758	AG	719	1.8	.0	18.9
F. SB Left 0	0	916	8	758	AG	0	1.8	.0	18.9
G. SB External	0	1516	0	916	AG	627	1.2	.0	18.9
H. SB Approach	0	916	0	758	AG	627	1.8	.0	18.9
I. SB Depart	0	758	0	600	AG	1496	1.8	.0	18.9
J. SB External	0	600	0	0	AG	1496	1.2	.0	18.9
K. EB External	-750	750	-150	750	AG	2156	1.2	.0	18.9
L. EB Approach	-150	750	8	750	AG	1078	1.8	.0	18.9
M. EB Depart	8	750	166	750	AG	0	1.8	.0	18.9
N. EB External	166	750	766	750	AG	0	1.2	.0	18.9
O. WB External	766	766	166	766	AG	0	1.2	.0	18.9
P. WB Approach	166	766	8	766	AG	0	1.8	.0	18.9
Q. WB Depart	8	766	-150	766	AG	928	1.8	.0	18.9
R. WB External	-150	766	-750	766	AG	928	1.2	.0	18.9
S. EB Left 10	-150	750	8	758	AG	1078	1.8	.0	18.9
T. WB Left 0	166	766	8	758	AG	0	1.8	.0	18.9

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

JOB: Syl Foothill & Balboa PM 2030
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	19	747	2.0
3. Receptor	19	769	2.0
4. Receptor	-3	769	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	5.	.5	.0	.0	.0	.0	.0	.0	.0	.1
2. Receptor	273.	.6	.0	.0	.0	.0	.0	.0	.0	.0
3. Receptor	183.	.6	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	176.	.6	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) 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	.2	.0	.0	.0	.0	.0	.0	.1	.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

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

JOB: Syl Foothill & Hubbard PM 2030
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	16	0	16	600	AG	2154	1.2	.0	18.9
B. NB Approach	16	600	16	758	AG	1615	1.8	.0	18.9
C. NB Depart	16	758	16	916	AG	1373	1.8	.0	18.9
D. NB External	16	916	16	1516	AG	1373	1.2	.0	18.9
E. NB Left 53	16	600	8	758	AG	539	1.8	.0	18.9
F. SB Left 48	0	916	8	758	AG	485	1.8	.0	18.9
G. SB External	0	1516	0	916	AG	1938	1.2	.0	18.9
H. SB Approach	0	916	0	758	AG	1453	1.8	.0	18.9
I. SB Depart	0	758	0	600	AG	1265	1.8	.0	18.9
J. SB External	0	600	0	0	AG	1265	1.2	.0	18.9
K. EB External	-750	750	-150	750	AG	676	1.2	.0	18.9
L. EB Approach	-150	750	8	750	AG	507	1.8	.0	18.9
M. EB Depart	8	750	166	750	AG	1362	1.8	.0	18.9
N. EB External	166	750	766	750	AG	1362	1.2	.0	18.9
O. WB External	766	766	166	766	AG	512	1.2	.0	18.9
P. WB Approach	166	766	8	766	AG	384	1.8	.0	18.9
Q. WB Depart	8	766	-150	766	AG	1280	1.8	.0	18.9
R. WB External	-150	766	-750	766	AG	1280	1.2	.0	18.9
S. EB Left 16	-150	750	8	758	AG	169	1.8	.0	18.9
T. WB Left 12	166	766	8	758	AG	128	1.8	.0	18.9

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

JOB: Syl Foothill & Hubbard PM 2030
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	19	747	2.0
3. Receptor	19	769	2.0
4. Receptor	-3	769	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	3.	.6	.0	.0	.0	.0	.0	.0	.0	.2
2. Receptor	356.	.6	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	182.	.6	.0	.3	.0	.0	.0	.0	.0	.0
4. Receptor	176.	.6	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) 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

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

JOB: Syl Foothill & McClay PM 2030
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	*	16	0	16	600	* AG	2073	1.2	.0	18.9
B. NB Approach	*	16	600	16	757	* AG	1555	1.8	.0	18.9
C. NB Depart	*	16	757	16	914	* AG	1253	1.8	.0	18.9
D. NB External	*	16	914	16	1514	* AG	1253	1.2	.0	18.9
E. NB Left 51	*	16	600	8	757	* AG	518	1.8	.0	18.9
F. SB Left 46	*	0	914	8	757	* AG	463	1.8	.0	18.9
G. SB External	*	0	1514	0	914	* AG	1851	1.2	.0	18.9
H. SB Approach	*	0	914	0	757	* AG	1388	1.8	.0	18.9
I. SB Depart	*	0	757	0	600	* AG	1141	1.8	.0	18.9
J. SB External	*	0	600	0	0	* AG	1141	1.2	.0	18.9
K. EB External	*	-750	750	-150	750	* AG	486	1.2	.0	16.7
L. EB Approach	*	-150	750	8	750	* AG	364	1.8	.0	16.7
M. EB Depart	*	8	750	166	750	* AG	1223	1.8	.0	16.7
N. EB External	*	166	750	766	750	* AG	1223	1.2	.0	16.7
O. WB External	*	766	764	166	764	* AG	374	1.2	.0	16.7
P. WB Approach	*	166	764	8	764	* AG	280	1.8	.0	16.7
Q. WB Depart	*	8	764	-150	764	* AG	1167	1.8	.0	16.7
R. WB External	*	-150	764	-750	764	* AG	1167	1.2	.0	16.7
S. EB Left 12	*	-150	750	8	757	* AG	122	1.8	.0	16.7
T. WB Left 94	*	166	764	8	757	* AG	94	1.8	.0	16.7

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

JOB: Syl Foothill & McClay PM 2030
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	*	19	747	2.0
3. Receptor	*	19	767	2.0
4. Receptor	*	-3	767	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	*	3.	*	.6	*	.0	.0	.0	.0	.0	.0	.0	.2
2. Receptor	*	356.	*	.5	*	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	*	182.	*	.6	*	.0	.3	.0	.0	.0	.0	.0	.0
4. Receptor	*	176.	*	.5	*	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) 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: Syl Foothill & Rockford PM 2030
               RUN: Hour 1           (WORST CASE ANGLE)
        POLLUTANT: Carbon Monoxide
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I. SITE VARIABLES

```
         U=   1.0 M/S            Z0= 100. CM           ALT=   366. (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=  4.4 DEGREE (C)
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II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NB External	16	0	16	600	AG	1577	1.2	.0	18.9
B. NB Approach	16	600	16	758	AG	1183	1.8	.0	18.9
C. NB Depart	16	758	16	916	AG	1027	1.8	.0	18.9
D. NB External	16	916	16	1516	AG	1027	1.2	.0	18.9
E. NB Left 39	16	600	8	758	AG	394	1.8	.0	18.9
F. SB Left 15	0	916	8	758	AG	157	1.8	.0	18.9
G. SB External	0	1516	0	916	AG	626	1.2	.0	18.9
H. SB Approach	0	916	0	758	AG	469	1.8	.0	18.9
I. SB Depart	0	758	0	600	AG	550	1.8	.0	18.9
J. SB External	0	600	0	0	AG	550	1.2	.0	18.9
K. EB External	-750	750	-150	750	AG	391	1.2	.0	18.9
L. EB Approach	-150	750	8	750	AG	293	1.8	.0	18.9
M. EB Depart	8	750	166	750	AG	746	1.8	.0	18.9
N. EB External	166	750	766	750	AG	746	1.2	.0	18.9
O. WB External	766	766	166	766	AG	561	1.2	.0	18.9
P. WB Approach	166	766	8	766	AG	421	1.8	.0	18.9
Q. WB Depart	8	766	-150	766	AG	832	1.8	.0	18.9
R. WB External	-150	766	-750	766	AG	832	1.2	.0	18.9
S. EB Left 98	-150	750	8	758	AG	98	1.8	.0	18.9
T. WB Left 14	166	766	8	758	AG	140	1.8	.0	18.9

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

               JOB: Syl Foothill & Rockford PM 2030
               RUN: Hour 1           (WORST CASE ANGLE)
        POLLUTANT: Carbon Monoxide
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III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Receptor	-3	747	2.0
2. Receptor	19	747	2.0
3. Receptor	19	769	2.0
4. Receptor	-3	769	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	88.	.3	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	358.	.4	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	182.	.4	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	175.	.3	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P	Q	R	S	T
1. Receptor	.0	.0	.0	.0	.1	.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	.0	.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: Syl Foothill & Sayer PM 2030
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	*	16	0	16	600	* AG	2061	1.2	.0	18.9
B. NB Approach	*	16	600	16	755	* AG	1546	1.8	.0	18.9
C. NB Depart	*	16	755	16	910	* AG	1212	1.8	.0	18.9
D. NB External	*	16	910	16	1510	* AG	1212	1.2	.0	18.9
E. NB Left 51	*	16	600	8	755	* AG	515	1.8	.0	18.9
F. SB Left 43	*	0	910	8	755	* AG	439	1.8	.0	18.9
G. SB External	*	0	1510	0	910	* AG	1754	1.2	.0	18.9
H. SB Approach	*	0	910	0	755	* AG	1315	1.8	.0	18.9
I. SB Depart	*	0	755	0	600	* AG	1057	1.8	.0	18.9
J. SB External	*	0	600	0	0	* AG	1057	1.2	.0	18.9
K. EB External	*	-750	750	-150	750	* AG	187	1.2	.0	12.8
L. EB Approach	*	-150	750	8	750	* AG	140	1.8	.0	12.8
M. EB Depart	*	8	750	166	750	* AG	1047	1.8	.0	12.8
N. EB External	*	166	750	766	750	* AG	1047	1.2	.0	12.8
O. WB External	*	766	760	166	760	* AG	537	1.2	.0	12.8
P. WB Approach	*	166	760	8	760	* AG	403	1.8	.0	12.8
Q. WB Depart	*	8	760	-150	760	* AG	1223	1.8	.0	12.8
R. WB External	*	-150	760	-750	760	* AG	1223	1.2	.0	12.8
S. EB Left 47	*	-150	750	8	755	* AG	47	1.8	.0	12.8
T. WB Left 13	*	166	760	8	755	* AG	134	1.8	.0	12.8

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

JOB: Syl Foothill & Sayer PM 2030
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	*	19	747	2.0
3. Receptor	*	19	763	2.0
4. Receptor	*	-3	763	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	* 3.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.2
2. Receptor	* 356.	* .5	*	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	* 182.	* .6	*	.0	.3	.0	.0	.0	.0	.0	.0
4. Receptor	* 176.	* .5	*	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM) 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: Syl Foothill & Yarnell PM 2030
                RUN: Hour 1           (WORST CASE ANGLE)
         POLLUTANT: Carbon Monoxide


  I.  SITE VARIABLES

        U=   1.0 M/S            Z0= 100. CM           ALT=   366. (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=  4.4 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  *    16     0    16   600 *  AG   1729   1.2     .0  18.9
B. NB Approach  *    16   600    16   757 *  AG   1297   1.8     .0  18.9
C. NB Depart    *    16   757    16   914 *  AG   1200   1.8     .0  18.9
D. NB External  *    16   914    16  1514 *  AG   1200   1.2     .0  18.9
E. NB Left   43 *    16   600     8   757 *  AG    432   1.8     .0  18.9
F. SB Left   15 *     0   914     8   757 *  AG    154   1.8     .0  18.9
G. SB External  *     0  1514     0   914 *  AG    615   1.2     .0  18.9
H. SB Approach  *     0   914     0   757 *  AG    461   1.8     .0  18.9
I. SB Depart    *     0   757     0   600 *  AG    642   1.8     .0  18.9
J. SB External  *     0   600     0     0 *  AG    642   1.2     .0  18.9
K. EB External  *  -750   750  -150   750 *  AG    199   1.2     .0  16.7
L. EB Approach  *  -150   750     8   750 *  AG    149   1.8     .0  16.7
M. EB Depart    *     8   750   166   750 *  AG    685   1.8     .0  16.7
N. EB External  *   166   750   766   750 *  AG    685   1.2     .0  16.7
O. WB External  *   766   764   166   764 *  AG   1139   1.2     .0  16.7
P. WB Approach  *   166   764     8   764 *  AG    854   1.8     .0  16.7
Q. WB Depart    *     8   764  -150   764 *  AG   1155   1.8     .0  16.7
R. WB External  *  -150   764  -750   764 *  AG   1155   1.2     .0  16.7
S. EB Left   50 *  -150   750     8   757 *  AG     50   1.8     .0  16.7
T. WB Left   28 *   166   764     8   757 *  AG    285   1.8     .0  16.7

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

                JOB: Syl Foothill & Yarnell PM 2030
                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 *     19    747   2.0
3. Receptor *     19    767   2.0
4. Receptor *     -3    767   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 *   86. *    .4 *   .0   .0   .0   .0   .0   .0   .0   .0
2. Receptor *  358. *    .4 *   .0   .0   .2   .0   .0   .0   .0   .0
3. Receptor *  182. *    .5 *   .0   .2   .0   .0   .0   .0   .0   .0
4. Receptor *   92. *    .4 *   .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   .1   .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 *   .0   .0   .0   .0   .0   .0   .0   .2   .0   .0   .0   .0

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

JOB: Syl San Fernando & Astoria PM 2030
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	16	0	16	600	AG	2024	1.2	.0	18.9
B. NB Approach	16	600	16	755	AG	1518	1.8	.0	18.9
C. NB Depart	16	755	16	910	AG	1049	1.8	.0	18.9
D. NB External	16	910	16	1510	AG	1049	1.2	.0	18.9
E. NB Left 50	16	600	8	755	AG	506	1.8	.0	18.9
F. SB Left 20	0	910	8	755	AG	203	1.8	.0	18.9
G. SB External	0	1510	0	910	AG	811	1.2	.0	18.9
H. SB Approach	0	910	0	755	AG	608	1.8	.0	18.9
I. SB Depart	0	755	0	600	AG	442	1.8	.0	18.9
J. SB External	0	600	0	0	AG	442	1.2	.0	18.9
K. EB External	-750	750	-150	750	AG	38	1.2	.0	12.8
L. EB Approach	-150	750	8	750	AG	28	1.8	.0	12.8
M. EB Depart	8	750	166	750	AG	727	1.8	.0	12.8
N. EB External	166	750	766	750	AG	727	1.2	.0	12.8
O. WB External	766	760	166	760	AG	108	1.2	.0	12.8
P. WB Approach	166	760	8	760	AG	81	1.8	.0	12.8
Q. WB Depart	8	760	-150	760	AG	763	1.8	.0	12.8
R. WB External	-150	760	-750	760	AG	763	1.2	.0	12.8
S. EB Left 10	-150	750	8	755	AG	10	1.8	.0	12.8
T. WB Left 27	166	760	8	755	AG	27	1.8	.0	12.8

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

JOB: Syl San Fernando & Astoria PM 2030
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	19	747	2.0
3. Receptor	19	763	2.0
4. Receptor	-3	763	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	88.	.3	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	357.	.4	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	182.	.5	.0	.3	.0	.0	.0	.0	.0	.0
4. Receptor	173.	.3	.0	.0	.0	.0	.0	.0	.0	.0

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

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

JOB: Syl San Fernando & Polk PM 2030
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	16	0	16	600	AG	2024	1.2	.0	18.9
B. NB Approach	16	600	16	758	AG	1518	1.8	.0	18.9
C. NB Depart	16	758	16	916	AG	1230	1.8	.0	18.9
D. NB External	16	916	16	1516	AG	1230	1.2	.0	18.9
E. NB Left 50	16	600	8	758	AG	506	1.8	.0	18.9
F. SB Left 17	0	916	8	758	AG	173	1.8	.0	18.9
G. SB External	0	1516	0	916	AG	693	1.2	.0	18.9
H. SB Approach	0	916	0	758	AG	520	1.8	.0	18.9
I. SB Depart	0	758	0	600	AG	565	1.8	.0	18.9
J. SB External	0	600	0	0	AG	565	1.2	.0	18.9
K. EB External	-750	750	-150	750	AG	185	1.2	.0	18.9
L. EB Approach	-150	750	8	750	AG	139	1.8	.0	18.9
M. EB Depart	8	750	166	750	AG	772	1.8	.0	18.9
N. EB External	166	750	766	750	AG	772	1.2	.0	18.9
O. WB External	766	766	166	766	AG	689	1.2	.0	18.9
P. WB Approach	166	766	8	766	AG	517	1.8	.0	18.9
Q. WB Depart	8	766	-150	766	AG	1024	1.8	.0	18.9
R. WB External	-150	766	-750	766	AG	1024	1.2	.0	18.9
S. EB Left 46	-150	750	8	758	AG	46	1.8	.0	18.9
T. WB Left 17	166	766	8	758	AG	172	1.8	.0	18.9

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

JOB: Syl San Fernando & Polk PM 2030
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	19	747	2.0
3. Receptor	19	769	2.0
4. Receptor	-3	769	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	87.	.4	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	358.	.4	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	182.	.5	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	174.	.4	.0	.0	.0	.0	.0	.0	.0	.0

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

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

JOB: Syl San Fernando & Tyler PM 2030
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 1.0 M/S Z0= 100. CM ALT= 366. (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= 4.4 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	*	16	0	16	600	* AG	1841	1.2	.0	18.9
B. NB Approach	*	16	600	16	755	* AG	1227	1.8	.0	18.9
C. NB Depart	*	16	755	16	910	* AG	1436	1.8	.0	18.9
D. NB External	*	16	910	16	1510	* AG	1436	1.2	.0	18.9
E. NB Left 61	*	16	600	8	755	* AG	614	1.8	.0	18.9
F. SB Left 0	*	0	910	8	755	* AG	0	1.8	.0	18.9
G. SB External	*	0	1510	0	910	* AG	502	1.2	.0	18.9
H. SB Approach	*	0	910	0	755	* AG	502	1.8	.0	18.9
I. SB Depart	*	0	755	0	600	* AG	544	1.8	.0	18.9
J. SB External	*	0	600	0	0	* AG	544	1.2	.0	18.9
K. EB External	*	-750	750	-150	750	* AG	418	1.2	.0	12.8
L. EB Approach	*	-150	750	8	750	* AG	209	1.8	.0	12.8
M. EB Depart	*	8	750	166	750	* AG	0	1.8	.0	12.8
N. EB External	*	166	750	766	750	* AG	0	1.2	.0	12.8
O. WB External	*	766	760	166	760	* AG	0	1.2	.0	12.8
P. WB Approach	*	166	760	8	760	* AG	0	1.8	.0	12.8
Q. WB Depart	*	8	760	-150	760	* AG	781	1.8	.0	12.8
R. WB External	*	-150	760	-750	760	* AG	781	1.2	.0	12.8
S. EB Left 20	*	-150	750	8	755	* AG	209	1.8	.0	12.8
T. WB Left 0	*	166	760	8	755	* AG	0	1.8	.0	12.8

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

JOB: Syl San Fernando & Tyler PM 2030
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	*	19	747	2.0
3. Receptor	*	19	763	2.0
4. Receptor	*	-3	763	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	* 174.	* .3	*	.0	.0	.0	.0	.0	.0	.0	.0
2. Receptor	* 358.	* .4	*	.0	.0	.2	.0	.0	.0	.0	.0
3. Receptor	* 182.	* .4	*	.0	.2	.0	.0	.0	.0	.0	.0
4. Receptor	* 174.	* .4	*	.0	.0	.0	.0	.0	.0	.0	.0

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

Sylmar CalEEMod 2005 Output

Sylmar Existing Conditions

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	3231.05	1000sqft
Industrial Park	5950.57	1000sqft
Apartments Low Rise	2436	Dwelling Unit
Single Family Housing	12961	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Los Angeles Department of Water & Power
Climate Zone	11	**Precipitation Freq (Days)**	33		

1.3 User Entered Comments

Project Characteristics -

Land Use - Acerages, Population, based on Project Description

Construction Phase - No construction for Existing conditions. Buildings already constructed.

Off-road Equipment - No construction

Vehicle Trips - average trip length listed in LA GPF

Woodstoves -

Energy Use - 2005 is the operational year. Historical Data appropriate.

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,574.98	95.41	6,588.78	12.38		0.00	820.46		0.00	820.27	108,652.50	279,461.08		433.81	6.65	399,285.16
Energy	22.14	191.05	94.01	1.21		0.00	15.30		0.00	15.30		241,538.86		4.63	4.43	243,008.82
Mobile	2,469.37	5,369.96	23,240.72	35.58	1,838.07	160.38	1,998.46	63.30	160.38	223.68		1,796,417.78		177.82		1,800,151.93
Total	**5,066.49**	**5,656.42**	**29,923.51**	**49.17**	**1,838.07**	**160.38**	**2,834.22**	**63.30**	**160.38**	**1,059.25**	**108,652.50**	**2,317,417.72**		**616.26**	**11.08**	**2,442,445.91**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,574.98	95.41	6,588.78	12.38		0.00	820.46		0.00	820.27	108,652.50	279,461.08		433.81	6.65	399,285.16
Energy	22.14	191.05	94.01	1.21		0.00	15.30		0.00	15.30		241,538.86		4.63	4.43	243,008.82
Mobile	2,469.37	5,369.96	23,240.72	35.58	1,838.07	160.38	1,998.46	63.30	160.38	223.68		1,796,417.78		177.82		1,800,151.93
Total	**5,066.49**	**5,656.42**	**29,923.51**	**49.17**	**1,838.07**	**160.38**	**2,834.22**	**63.30**	**160.38**	**1,059.25**	**108,652.50**	**2,317,417.72**		**616.26**	**11.08**	**2,442,445.91**

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,469.37	5,369.96	23,240.72	35.58	1,838.07	160.38	1,998.46	63.30	160.38	223.68		1,796,417.78		177.82		1,800,151.93
Unmitigated	2,469.37	5,369.96	23,240.72	35.58	1,838.07	160.38	1,998.46	63.30	160.38	223.68		1,796,417.78		177.82		1,800,151.93
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	16,053.24	17,441.76	14786.52	42,619,985	42,619,985
General Office Building	35,573.86	7,657.59	3166.43	56,188,719	56,188,719
Industrial Park	41,415.97	14,816.92	4343.92	68,992,998	68,992,998
Single Family Housing	124,036.77	130,646.88	113667.97	327,526,485	327,526,485
Total	217,079.84	170,563.15	135,964.84	495,328,187	495,328,187

4.3 Trip Type Information

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Low Rise	10.00	7.00	7.00	40.20	19.20	40.60
General Office Building	7.00	7.00	7.00	33.00	48.00	19.00

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Industrial Park	7.00	7.00	7.00	59.00	28.00	13.00
Single Family Housing	10.00	7.00	7.00	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	22.14	191.05	94.01	1.21		0.00	15.30		0.00	15.30		241,538.86		4.63	4.43	243,008.82
NaturalGas Unmitigated	22.14	191.05	94.01	1.21		0.00	15.30		0.00	15.30		241,538.86		4.63	4.43	243,008.82
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	146610	1.58	13.51	5.75	0.09		0.00	1.09		0.00	1.09		17,248.21		0.33	0.32	17,353.18
General Office Building	110121	1.19	10.80	9.07	0.06		0.00	0.82		0.00	0.82		12,955.44		0.25	0.24	13,034.29
Industrial Park	202808	2.19	19.88	16.70	0.12		0.00	1.51		0.00	1.51		23,859.82		0.46	0.44	24,005.03
Single Family Housing	1.59354e+006	17.19	146.86	62.49	0.94		0.00	11.87		0.00	11.87		187,475.38		3.59	3.44	188,616.33
Total		**22.15**	**191.05**	**94.01**	**1.21**		**0.00**	**15.29**		**0.00**	**15.29**		**241,538.85**		**4.63**	**4.44**	**243,008.83**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	146.61	1.58	13.51	5.75	0.09		0.00	1.09		0.00	1.09		17,248.21		0.33	0.32	17,353.18
General Office Building	110.121	1.19	10.80	9.07	0.06		0.00	0.82		0.00	0.82		12,955.44		0.25	0.24	13,034.29
Industrial Park	202.808	2.19	19.88	16.70	0.12		0.00	1.51		0.00	1.51		23,859.82		0.46	0.44	24,005.03
Single Family Housing	1593.54	17.19	146.86	62.49	0.94		0.00	11.87		0.00	11.87		187,475.38		3.59	3.44	188,616.33
Total		**22.15**	**191.05**	**94.01**	**1.21**		**0.00**	**15.29**		**0.00**	**15.29**		**241,538.85**		**4.63**	**4.44**	**243,008.83**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,574.98	95.41	6,588.78	12.38		0.00	820.46		0.00	820.27	108,652.50	279,461.08		433.81	6.65	399,285.16
Unmitigated	2,574.98	95.41	6,588.78	12.38		0.00	820.46		0.00	820.27	108,652.50	279,461.08		433.81	6.65	399,285.16
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	179.61					0.00	0.00		0.00	0.00						0.00
Consumer Products	691.96					0.00	0.00		0.00	0.00						0.00
Hearth	1,638.83	75.16	5,096.54	12.31		0.00	814.17		0.00	813.99	108,652.50	277,146.00		430.10	6.65	396,892.17
Landscaping	64.58	20.24	1,492.24	0.07		0.00	6.28		0.00	6.28		2,315.08		3.71		2,393.00
Total	**2,574.98**	**95.40**	**6,588.78**	**12.38**		**0.00**	**820.45**		**0.00**	**820.27**	**108,652.50**	**279,461.08**		**433.81**	**6.65**	**399,285.17**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	179.61					0.00	0.00		0.00	0.00						0.00
Consumer Products	691.96					0.00	0.00		0.00	0.00						0.00
Hearth	1,638.83	75.16	5,096.54	12.31		0.00	814.17		0.00	813.99	108,652.50	277,146.00		430.10	6.65	396,892.17
Landscaping	64.58	20.24	1,492.24	0.07		0.00	6.28		0.00	6.28		2,315.08		3.71		2,393.00
Total	**2,574.98**	**95.40**	**6,588.78**	**12.38**		**0.00**	**820.45**		**0.00**	**820.27**	**108,652.50**	**279,461.08**		**433.81**	**6.65**	**399,285.17**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Sylmar Existing Conditions

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	3231.05	1000sqft
Industrial Park	5950.57	1000sqft
Apartments Low Rise	2436	Dwelling Unit
Single Family Housing	12961	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Los Angeles Department of Water & Power
Climate Zone	11	**Precipitation Freq (Days)**	33		

1.3 User Entered Comments

Project Characteristics -

Land Use - Acerages, Population, based on Project Description

Construction Phase - No construction for Existing conditions. Buildings already constructed.

Off-road Equipment - No construction

Vehicle Trips - average trip length listed in LA GPF

Woodstoves -

Energy Use - 2005 is the operational year. Historical Data appropriate.

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,574.98	95.41	6,588.78	12.38		0.00	820.46		0.00	820.27	108,652.50	279,461.08		433.81	6.65	399,285.16
Energy	22.14	191.05	94.01	1.21		0.00	15.30		0.00	15.30		241,538.86		4.63	4.43	243,008.82
Mobile	2,329.15	4,862.38	23,143.52	36.74	1,838.07	158.47	1,996.55	63.30	158.47	221.77		1,909,899.79		180.67		1,913,693.95
Total	**4,926.27**	**5,148.84**	**29,826.31**	**50.33**	**1,838.07**	**158.47**	**2,832.31**	**63.30**	**158.47**	**1,057.34**	**108,652.50**	**2,430,899.73**		**619.11**	**11.08**	**2,555,987.93**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2,574.98	95.41	6,588.78	12.38		0.00	820.46		0.00	820.27	108,652.50	279,461.08		433.81	6.65	399,285.16
Energy	22.14	191.05	94.01	1.21		0.00	15.30		0.00	15.30		241,538.86		4.63	4.43	243,008.82
Mobile	2,329.15	4,862.38	23,143.52	36.74	1,838.07	158.47	1,996.55	63.30	158.47	221.77		1,909,899.79		180.67		1,913,693.95
Total	**4,926.27**	**5,148.84**	**29,826.31**	**50.33**	**1,838.07**	**158.47**	**2,832.31**	**63.30**	**158.47**	**1,057.34**	**108,652.50**	**2,430,899.73**		**619.11**	**11.08**	**2,555,987.93**

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,329.15	4,862.38	23,143.52	36.74	1,838.07	158.47	1,996.55	63.30	158.47	221.77		1,909,899.79		180.67		1,913,693.95
Unmitigated	2,329.15	4,862.38	23,143.52	36.74	1,838.07	158.47	1,996.55	63.30	158.47	221.77		1,909,899.79		180.67		1,913,693.95
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	16,053.24	17,441.76	14786.52	42,619,985	42,619,985
General Office Building	35,573.86	7,657.59	3166.43	56,188,719	56,188,719
Industrial Park	41,415.97	14,816.92	4343.92	68,992,998	68,992,998
Single Family Housing	124,036.77	130,646.88	113667.97	327,526,485	327,526,485
Total	217,079.84	170,563.15	135,964.84	495,328,187	495,328,187

4.3 Trip Type Information

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Low Rise	10.00	7.00	7.00	40.20	19.20	40.60
General Office Building	7.00	7.00	7.00	33.00	48.00	19.00

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Industrial Park	7.00	7.00	7.00	59.00	28.00	13.00
Single Family Housing	10.00	7.00	7.00	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	22.14	191.05	94.01	1.21		0.00	15.30		0.00	15.30		241,538.86		4.63	4.43	243,008.82
NaturalGas Unmitigated	22.14	191.05	94.01	1.21		0.00	15.30		0.00	15.30		241,538.86		4.63	4.43	243,008.82
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	146610	1.58	13.51	5.75	0.09		0.00	1.09		0.00	1.09		17,248.21		0.33	0.32	17,353.18
General Office Building	110121	1.19	10.80	9.07	0.06		0.00	0.82		0.00	0.82		12,955.44		0.25	0.24	13,034.29
Industrial Park	202808	2.19	19.88	16.70	0.12		0.00	1.51		0.00	1.51		23,859.82		0.46	0.44	24,005.03
Single Family Housing	1.59354e+006	17.19	146.86	62.49	0.94		0.00	11.87		0.00	11.87		187,475.38		3.59	3.44	188,616.33
Total		**22.15**	**191.05**	**94.01**	**1.21**		**0.00**	**15.29**		**0.00**	**15.29**		**241,538.85**		**4.63**	**4.44**	**243,008.83**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	146.61	1.58	13.51	5.75	0.09		0.00	1.09		0.00	1.09		17,248.21		0.33	0.32	17,353.18
General Office Building	110.121	1.19	10.80	9.07	0.06		0.00	0.82		0.00	0.82		12,955.44		0.25	0.24	13,034.29
Industrial Park	202.808	2.19	19.88	16.70	0.12		0.00	1.51		0.00	1.51		23,859.82		0.46	0.44	24,005.03
Single Family Housing	1593.54	17.19	146.86	62.49	0.94		0.00	11.87		0.00	11.87		187,475.38		3.59	3.44	188,616.33
Total		**22.15**	**191.05**	**94.01**	**1.21**		**0.00**	**15.29**		**0.00**	**15.29**		**241,538.85**		**4.63**	**4.44**	**243,008.83**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2,574.98	95.41	6,588.78	12.38		0.00	820.46		0.00	820.27	108,652.50	279,461.08		433.81	6.65	399,285.16
Unmitigated	2,574.98	95.41	6,588.78	12.38		0.00	820.46		0.00	820.27	108,652.50	279,461.08		433.81	6.65	399,285.16
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	179.61					0.00	0.00		0.00	0.00						0.00
Consumer Products	691.96					0.00	0.00		0.00	0.00						0.00
Hearth	1,638.83	75.16	5,096.54	12.31		0.00	814.17		0.00	813.99	108,652.50	277,146.00		430.10	6.65	396,892.17
Landscaping	64.58	20.24	1,492.24	0.07		0.00	6.28		0.00	6.28		2,315.08		3.71		2,393.00
Total	**2,574.98**	**95.40**	**6,588.78**	**12.38**		**0.00**	**820.45**		**0.00**	**820.27**	**108,652.50**	**279,461.08**		**433.81**	**6.65**	**399,285.17**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	179.61					0.00	0.00		0.00	0.00						0.00
Consumer Products	691.96					0.00	0.00		0.00	0.00						0.00
Hearth	1,638.83	75.16	5,096.54	12.31		0.00	814.17		0.00	813.99	108,652.50	277,146.00		430.10	6.65	396,892.17
Landscaping	64.58	20.24	1,492.24	0.07		0.00	6.28		0.00	6.28		2,315.08		3.71		2,393.00
Total	**2,574.98**	**95.40**	**6,588.78**	**12.38**		**0.00**	**820.45**		**0.00**	**820.27**	**108,652.50**	**279,461.08**		**433.81**	**6.65**	**399,285.17**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Vegetation

Sylmar CalEEMod 2030 Output

Sylmar Proposed Plan

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	6733.84	1000sqft
Industrial Park	6704.36	1000sqft
Apartments Low Rise	7751	Dwelling Unit
Single Family Housing	15498	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Los Angeles Department of Water & Power
Climate Zone	11	**Precipitation Freq (Days)**	33		

1.3 User Entered Comments

Project Characteristics - Based on LADWP 2011 Power Integration Resource Plan dated December 22, 2011

Land Use - Units, acreage, and population based on project description

Construction Phase - No construction scenario available for CPA

Off-road Equipment - No construction estimated

Vehicle Trips - Based on LA GPF.

Woodstoves -

Energy Use - Used defaults.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,665.89	135.72	9,630.85	18.69		0.00	1,240.09		0.00	1,239.82	164,061.96	421,977.70		652.76	10.04	602,860.59
Energy	27.83	240.18	118.55	1.52		0.00	19.23		0.00	19.23		303,587.33		5.82	5.57	305,434.91
Mobile	856.84	1,983.54	6,559.83	24.18	2,700.79	117.93	2,818.71	38.42	115.03	153.45		1,940,767.43		55.67		1,941,936.46
Total	**4,550.56**	**2,359.44**	**16,309.23**	**44.39**	**2,700.79**	**117.93**	**4,078.03**	**38.42**	**115.03**	**1,412.50**	**164,061.96**	**2,666,332.46**		**714.25**	**15.61**	**2,850,231.96**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,663.20	135.27	9,584.95	18.69		0.00	1,239.82		0.00	1,239.55	164,061.96	421,874.10		652.61	10.04	602,753.70
Energy	27.83	240.18	118.55	1.52		0.00	19.23		0.00	19.23		303,587.33		5.82	5.57	305,434.91
Mobile	856.84	1,983.54	6,559.83	24.18	2,700.79	117.93	2,818.71	38.42	115.03	153.45		1,940,767.43		55.67		1,941,936.46
Total	**4,547.87**	**2,358.99**	**16,263.33**	**44.39**	**2,700.79**	**117.93**	**4,077.76**	**38.42**	**115.03**	**1,412.23**	**164,061.96**	**2,666,228.86**		**714.10**	**15.61**	**2,850,125.07**

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	856.84	1,983.54	6,559.83	24.18	2,700.79	117.93	2,818.71	38.42	115.03	153.45		1,940,767.43		55.67		1,941,936.46
Unmitigated	856.84	1,983.54	6,559.83	24.18	2,700.79	117.93	2,818.71	38.42	115.03	153.45		1,940,767.43		55.67		1,941,936.46
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	51,079.09	55,497.16	47048.57	135,610,633	135,610,633

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	74,139.58	15,959.20	6599.16	117,103,061	117,103,061
Industrial Park	46,662.35	16,693.86	4894.18	77,732,704	77,732,704
Single Family Housing	148,315.86	156,219.84	135917.46	391,636,869	391,636,869
Total	320,196.87	244,370.06	194,459.38	722,083,267	722,083,267

4.3 Trip Type Information

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Low Rise	10.00	7.00	7.00	40.20	19.20	40.60
General Office Building	7.00	7.00	7.00	33.00	48.00	19.00
Industrial Park	7.00	7.00	7.00	59.00	28.00	13.00
Single Family Housing	10.00	7.00	7.00	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	27.83	240.18	118.55	1.52		0.00	19.23		0.00	19.23		303,587.33		5.82	5.57	305,434.91
NaturalGas Unmitigated	27.83	240.18	118.55	1.52		0.00	19.23		0.00	19.23		303,587.33		5.82	5.57	305,434.91
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	437943	4.72	40.36	17.17	0.26		0.00	3.26		0.00	3.26		51,522.75		0.99	0.94	51,836.31
General Office Building	201646	2.17	19.77	16.61	0.12		0.00	1.50		0.00	1.50		23,723.08		0.45	0.43	23,867.46
Industrial Park	200763	2.17	19.68	16.53	0.12		0.00	1.50		0.00	1.50		23,619.23		0.45	0.43	23,762.97
Single Family Housing	1.74014e+006	18.77	160.37	68.24	1.02		0.00	12.97		0.00	12.97		204,722.26		3.92	3.75	205,968.17
Total		**27.83**	**240.18**	**118.55**	**1.52**		**0.00**	**19.23**		**0.00**	**19.23**		**303,587.32**		**5.81**	**5.55**	**305,434.91**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	437.943	4.72	40.36	17.17	0.26		0.00	3.26		0.00	3.26		51,522.75		0.99	0.94	51,836.31
General Office Building	201.646	2.17	19.77	16.61	0.12		0.00	1.50		0.00	1.50		23,723.08		0.45	0.43	23,867.46
Industrial Park	200.763	2.17	19.68	16.53	0.12		0.00	1.50		0.00	1.50		23,619.23		0.45	0.43	23,762.97
Single Family Housing	1740.14	18.77	160.37	68.24	1.02		0.00	12.97		0.00	12.97		204,722.26		3.92	3.75	205,968.17
Total		**27.83**	**240.18**	**118.55**	**1.52**		**0.00**	**19.23**		**0.00**	**19.23**		**303,587.32**		**5.81**	**5.55**	**305,434.91**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3,663.20	135.27	9,584.95	18.69		0.00	1,239.82		0.00	1,239.55	164,061.96	421,874.10		652.61	10.04	602,753.70
Unmitigated	3,665.89	135.72	9,630.85	18.69		0.00	1,240.09		0.00	1,239.82	164,061.96	421,977.70		652.76	10.04	602,860.59
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	161.57					0.00	0.00		0.00	0.00						0.00
Consumer Products	971.89					0.00	0.00		0.00	0.00						0.00
Hearth	2,474.58	113.50	7,695.62	18.59		0.00	1,229.38		0.00	1,229.10	164,061.96	418,482.00		649.44	10.04	599,295.05
Landscaping	57.84	22.23	1,935.24	0.10		0.00	10.72		0.00	10.72		3,495.70		3.33		3,565.53
Total	**3,665.88**	**135.73**	**9,630.86**	**18.69**		**0.00**	**1,240.10**		**0.00**	**1,239.82**	**164,061.96**	**421,977.70**		**652.77**	**10.04**	**602,860.58**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	161.57					0.00	0.00		0.00	0.00						0.00
Consumer Products	971.89					0.00	0.00		0.00	0.00						0.00
Hearth	2,474.58	113.50	7,695.62	18.59		0.00	1,229.38		0.00	1,229.10	164,061.96	418,482.00		649.44	10.04	599,295.05
Landscaping	55.16	21.78	1,889.33	0.10		0.00	10.45		0.00	10.45		3,392.10		3.17		3,458.64
Total	**3,663.20**	**135.28**	**9,584.95**	**18.69**		**0.00**	**1,239.83**		**0.00**	**1,239.55**	**164,061.96**	**421,874.10**		**652.61**	**10.04**	**602,753.69**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation

Sylmar Proposed Plan

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Office Building	6733.84	1000sqft
Industrial Park	6704.36	1000sqft
Apartments Low Rise	7751	Dwelling Unit
Single Family Housing	15498	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Utility Company**	Los Angeles Department of Water & Power
Climate Zone	11	**Precipitation Freq (Days)**	33		

1.3 User Entered Comments

Project Characteristics - Based on LADWP 2011 Power Integration Resource Plan dated December 22, 2011

Land Use - Units, acreage, and population based on project description

Construction Phase - No construction scenario available for CPA

Off-road Equipment - No construction estimated

Vehicle Trips - Based on LA GPF.

Woodstoves -

Energy Use - Used defaults.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,665.89	135.72	9,630.85	18.69		0.00	1,240.09		0.00	1,239.82	164,061.96	421,977.70		652.76	10.04	602,860.59
Energy	27.83	240.18	118.55	1.52		0.00	19.23		0.00	19.23		303,587.33		5.82	5.57	305,434.91
Mobile	804.18	1,950.12	6,565.35	26.02	2,700.79	117.48	2,818.27	38.42	114.59	153.00		2,059,557.02		61.27		2,060,843.65
Total	**4,497.90**	**2,326.02**	**16,314.75**	**46.23**	**2,700.79**	**117.48**	**4,077.59**	**38.42**	**114.59**	**1,412.05**	**164,061.96**	**2,785,122.05**		**719.85**	**15.61**	**2,969,139.15**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3,663.20	135.27	9,584.95	18.69		0.00	1,239.82		0.00	1,239.55	164,061.96	421,874.10		652.61	10.04	602,753.70
Energy	27.83	240.18	118.55	1.52		0.00	19.23		0.00	19.23		303,587.33		5.82	5.57	305,434.91
Mobile	804.18	1,950.12	6,565.35	26.02	2,700.79	117.48	2,818.27	38.42	114.59	153.00		2,059,557.02		61.27		2,060,843.65
Total	**4,495.21**	**2,325.57**	**16,268.85**	**46.23**	**2,700.79**	**117.48**	**4,077.32**	**38.42**	**114.59**	**1,411.78**	**164,061.96**	**2,785,018.45**		**719.70**	**15.61**	**2,969,032.26**

3.0 Construction Detail

3.1 Mitigation Measures Construction

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	804.18	1,950.12	6,565.35	26.02	2,700.79	117.48	2,818.27	38.42	114.59	153.00		2,059,557.02		61.27		2,060,843.65
Unmitigated	804.18	1,950.12	6,565.35	26.02	2,700.79	117.48	2,818.27	38.42	114.59	153.00		2,059,557.02		61.27		2,060,843.65
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	51,079.09	55,497.16	47048.57	135,610,633	135,610,633

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	74,139.58	15,959.20	6599.16	117,103,061	117,103,061
Industrial Park	46,662.35	16,693.86	4894.18	77,732,704	77,732,704
Single Family Housing	148,315.86	156,219.84	135917.46	391,636,869	391,636,869
Total	320,196.87	244,370.06	194,459.38	722,083,267	722,083,267

4.3 Trip Type Information

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
Apartments Low Rise	10.00	7.00	7.00	40.20	19.20	40.60
General Office Building	7.00	7.00	7.00	33.00	48.00	19.00
Industrial Park	7.00	7.00	7.00	59.00	28.00	13.00
Single Family Housing	10.00	7.00	7.00	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	27.83	240.18	118.55	1.52		0.00	19.23		0.00	19.23		303,587.33		5.82	5.57	305,434.91
NaturalGas Unmitigated	27.83	240.18	118.55	1.52		0.00	19.23		0.00	19.23		303,587.33		5.82	5.57	305,434.91
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	437943	4.72	40.36	17.17	0.26		0.00	3.26		0.00	3.26		51,522.75		0.99	0.94	51,836.31
General Office Building	201646	2.17	19.77	16.61	0.12		0.00	1.50		0.00	1.50		23,723.08		0.45	0.43	23,867.46
Industrial Park	200763	2.17	19.68	16.53	0.12		0.00	1.50		0.00	1.50		23,619.23		0.45	0.43	23,762.97
Single Family Housing	1.74014e+006	18.77	160.37	68.24	1.02		0.00	12.97		0.00	12.97		204,722.26		3.92	3.75	205,968.17
Total		**27.83**	**240.18**	**118.55**	**1.52**		**0.00**	**19.23**		**0.00**	**19.23**		**303,587.32**		**5.81**	**5.55**	**305,434.91**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU	lb/day										lb/day					
Apartments Low Rise	437.943	4.72	40.36	17.17	0.26		0.00	3.26		0.00	3.26		51,522.75		0.99	0.94	51,836.31
General Office Building	201.646	2.17	19.77	16.61	0.12		0.00	1.50		0.00	1.50		23,723.08		0.45	0.43	23,867.46
Industrial Park	200.763	2.17	19.68	16.53	0.12		0.00	1.50		0.00	1.50		23,619.23		0.45	0.43	23,762.97
Single Family Housing	1740.14	18.77	160.37	68.24	1.02		0.00	12.97		0.00	12.97		204,722.26		3.92	3.75	205,968.17
Total		**27.83**	**240.18**	**118.55**	**1.52**		**0.00**	**19.23**		**0.00**	**19.23**		**303,587.32**		**5.81**	**5.55**	**305,434.91**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3,663.20	135.27	9,584.95	18.69		0.00	1,239.82		0.00	1,239.55	164,061.96	421,874.10		652.61	10.04	602,753.70
Unmitigated	3,665.89	135.72	9,630.85	18.69		0.00	1,240.09		0.00	1,239.82	164,061.96	421,977.70		652.76	10.04	602,860.59
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	161.57					0.00	0.00		0.00	0.00						0.00
Consumer Products	971.89					0.00	0.00		0.00	0.00						0.00
Hearth	2,474.58	113.50	7,695.62	18.59		0.00	1,229.38		0.00	1,229.10	164,061.96	418,482.00		649.44	10.04	599,295.05
Landscaping	57.84	22.23	1,935.24	0.10		0.00	10.72		0.00	10.72		3,495.70		3.33		3,565.53
Total	**3,665.88**	**135.73**	**9,630.86**	**18.69**		**0.00**	**1,240.10**		**0.00**	**1,239.82**	**164,061.96**	**421,977.70**		**652.77**	**10.04**	**602,860.58**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	161.57					0.00	0.00		0.00	0.00						0.00
Consumer Products	971.89					0.00	0.00		0.00	0.00						0.00
Hearth	2,474.58	113.50	7,695.62	18.59		0.00	1,229.38		0.00	1,229.10	164,061.96	418,482.00		649.44	10.04	599,295.05
Landscaping	55.16	21.78	1,889.33	0.10		0.00	10.45		0.00	10.45		3,392.10		3.17		3,458.64
Total	**3,663.20**	**135.28**	**9,584.95**	**18.69**		**0.00**	**1,239.83**		**0.00**	**1,239.55**	**164,061.96**	**421,874.10**		**652.61**	**10.04**	**602,753.69**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Vegetation