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## APPENDIX G

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# DISPERSION MODELING RESULTS

# **METRO STATION AND SURROUNDING MAJOR POLLUTERS**



PREPARED ONLY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WHOSE INTERESTS MAY NOT ENTER INTO A CONTRACT.

Client:

Project/Site:

Title:

### Dispersion Model Results for Metro Station.

Date:

Project No.:

Figure No.:

ISCST3 - (DATED 02035)

ISCST3X PC (32 BIT) VERSION 4.0.1  
(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on 3/01/2004 at 11:07:47

\*\* BREEZE ISC GIS Pro v4.0.13 - C:\SWAPE\Projects\Omnitrans\Appendix G\prelim 5th  
street.dat  
\*\* Trinity Consultants

CO STARTING  
CO TITLEONE Preliminary 5th Street Model  
CO TITLETWO Fugitive Emissions From Service Bay  
CO MODELOPT DFAULT CONC URBAN  
CO AVERTIME ANNUAL  
CO POLLUTID OTHER  
CO TERRHGTS FLAT  
CO FLAGPOLE 2  
CO RUNORNOT RUN  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS  
SO LOCATION YLLWCAB AREA 445.4 52.9 0  
\*\* SRCDESCR Yellow Cab/Bell Cabstop  
SO LOCATION TACOKID AREAPOLY 37.9 742.4 0  
\*\* SRCDESCR Taco Kid  
SO LOCATION PRIETO AREAPOLY 171.1 -161.3 0  
\*\* SRCDESCR Prieto Auto Body  
SO LOCATION ISLAND AREA -110.6 185.9 0  
\*\* SRCDESCR Fueling Islands  
SO LOCATION SRC2 AREA -237.3 181.0 0  
\*\* SRCDESCR Service Bays  
SO SRCPARAM YLLWCAB 3.392130E-05 0 22.3 49.00002 180 0  
SO SRCPARAM TACOKID 1.221167E-04 0 6 0  
SO AREAVERT TACOKID 37.9 742.4 23.2 742.4 23.2 737.9 18.0 737.5  
SO AREAVERT TACOKID 18.0 731.3 38.2 731.3  
SO SRCPARAM PRIETO 1.587517E-04 0 5 0  
SO AREAVERT PRIETO 171.1 -161.3 202.5 -162.0 205.3 -221.9 176.0 -220.5  
SO AREAVERT PRIETO 175.3 -160.6  
SO SRCPARAM ISLAND 0.000000E+00 1 17 23.9 90 0  
SO SRCPARAM SRC2 8.292917E-05 0 114 53.2 90 0  
SO EMISFACT YLLWCAB HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1  
SO EMISFACT YLLWCAB HROFDY 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0  
SO EMISFACT YLLWCAB HROFDY 0.0 0.0 0.0 0.0  
SO EMISFACT TACOKID HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.07692 0.07692  
0.07692  
SO EMISFACT TACOKID HROFDY 0.07692 0.07692 0.07692 0.07692 0.07692 0.07692  
SO EMISFACT TACOKID HROFDY 0.07692 0.07692 0.07692 0.07692 0.0 0.0 0.0  
SO EMISFACT TACOKID HROFDY 0.0 0.0  
SO EMISFACT PRIETO HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1  
SO EMISFACT PRIETO HROFDY 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0  
SO EMISFACT PRIETO HROFDY 0.0 0.0 0.0 0.0  
SO SRCGROUP Metro SRC2  
SO SRCGROUP Taco TACOKID  
SO SRCGROUP Prieto PRIETO  
SO SRCGROUP Taxi YLLWCAB  
SO FINISHED  
  
RE STARTING  
RE GRIDCART GRD2 STA 0  
\*\* GRDDESCR 100 Meter Cartesian Grid  
RE GRIDCART GRD2 XYINC -725.0 15 100.0 -633.1 15 100.0  
RE GRIDCART GRD2 END  
RE DISCCART 55.4 149.3

```

** RCPDESCR 500 ft receptor
RE DISCCART 103.8 291.4
** RCPDESCR 1000 ft receptor
RE DISCCART 228.8 396.6
** RCPDESCR 1500 ft receptor
RE DISCCART 308.4 524.5
** RCPDESCR 2000 ft receptor
RE DISCCART 385.0 655.4
** RCPDESCR 2500 ft receptor
RE DISCCART -2.4 204.7 2
** RCPDESCR Worst Case Receptor
RE FINISHED

ME STARTING
ME INPUTFIL "C:\SWAPE\PROJECTS\MET DATA\RIVERSD.ASC"
ME ANEMHGHT 10 METERS
ME SURFDATA 54139 1981
ME UAIRDATA 99999 1981
ME STARTEND 1981 01 01 1 1981 12 31 24
ME FINISHED

OU STARTING
OU FINISHED

** PROJECTN 0 104 7 -177 0 0.9996 500000 0
** IMAGE2 "C:\DOCUMENTS AND SETTINGS\JCLARK\DESKTOP\SB02-576_606_BW COPY.TAB"
** BMP "C:\DOCUMENTS AND SETTINGS\JCLARK\DESKTOP\SB02-576_606_BW COPY.JPG" -
1954.27778533101 -2048.59353366494 0.4623321
** OUTFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\prelim 5th street.LST"
** RAWFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\prelim 5th street.RAW"
** RAWFMT 2
** HILLBOUN 0 0 0 0

** POLLUTNT IDN 01 OTHER X
** POLLUTNT NAM 01 Other
** POLLUTNT IDN 02 H2S
** POLLUTNT NAM 02 Hydrogen Sulfide
** POLLUTNT IDN 03 MEMERC
** POLLUTNT NAM 03 Methyl Mercaptan
** POLLUTNT IDN 04 TOG
** POLLUTNT NAM 04 TOG
** POLLUTNT EMS YLLWCAB 3.392130E-05 0 0 0
** POLLUTNT EMS TACOKID 1.221167E-04 0 0 0
** POLLUTNT EMS PRIETO 1.587517E-04 0 0 0
** POLLUTNT EMS ISLAND 0 0 0 2.424179E-05
** POLLUTNT EMS SRC2 8.292917E-05 0 0 0

** BUILDING BLD 0 0 0 10.668 4
** BUILDING IDN BLD2
** BUILDING NAM Washing Station
** BUILDING REC -167.0 185.9 24.7 24.7 90.0
** BUILDING BLD 0 0 0 12.192 4
** BUILDING IDN BLD3
** BUILDING NAM Main Building
** BUILDING REC -210.4 133.2 59.8 73.8 90.0
** BUILDING BLD 0 0 0 9.144 10
** BUILDING IDN BLD4
** BUILDING NAM Service Bays
** BUILDING CRN -237.8 179.8
** BUILDING CRN -236.9 67.4
** BUILDING CRN -183.0 66.9
** BUILDING CRN -182.5 72.9
** BUILDING CRN -210.4 73.4
** BUILDING CRN -210.4 132.4
** BUILDING CRN -190.0 132.4
** BUILDING CRN -190.0 181.2
** BUILDING CRN -190.0 181.2

```

\*\* BUILDING CRN -237.4 180.7  
 \*\* BUILDING BLD 0 0 0 9.144 9  
 \*\* BUILDING IDN BLD5  
 \*\* BUILDING NAM Front Office of Omnitrans  
 \*\* BUILDING CRN -157.9 72.9  
 \*\* BUILDING CRN -159.8 26.9  
 \*\* BUILDING CRN -152.4 23.2  
 \*\* BUILDING CRN -113.8 21.9  
 \*\* BUILDING CRN -114.3 24.2  
 \*\* BUILDING CRN -94.3 24.6  
 \*\* BUILDING CRN -94.3 46.9  
 \*\* BUILDING CRN -141.2 48.3  
 \*\* BUILDING CRN -141.2 74.3  
 \*\* BUILDING BLD 0 0 0 3.048 4  
 \*\* BUILDING IDN BLD6  
 \*\* BUILDING NAM Guard Shack  
 \*\* BUILDING REC -17.1 51.2 5.8 6.7 90.0  
 \*\* BUILDING BLD 0 0 0 3.6576 4  
 \*\* BUILDING IDN BLD7  
 \*\* BUILDING NAM LNG Storage Facility  
 \*\* BUILDING REC -271.1 186.7 29.3 14.4 90.0  
 \*\* BUILDING BLD 0 0 0 9.144 12  
 \*\* BUILDING IDN BLD8  
 \*\* BUILDING NAM Main School Bldg  
 \*\* BUILDING CRN 43.2 390.6  
 \*\* BUILDING CRN 43.2 370.6  
 \*\* BUILDING CRN 51.6 370.1  
 \*\* BUILDING CRN 51.1 377.1  
 \*\* BUILDING CRN 131.9 376.7  
 \*\* BUILDING CRN 131.4 369.7  
 \*\* BUILDING CRN 141.2 371.1  
 \*\* BUILDING CRN 140.3 405.9  
 \*\* BUILDING CRN 130.5 405.9  
 \*\* BUILDING CRN 131.0 397.5  
 \*\* BUILDING CRN 52.0 397.5  
 \*\* BUILDING CRN 52.0 392.5  
 \*\* BUILDING BLD 0 0 0 3.6576 4  
 \*\* BUILDING IDN BLD9  
 \*\* BUILDING NAM Annex 1  
 \*\* BUILDING REC 23.3 381.3 9.8 14.4 90.0  
 \*\* BUILDING BLD 0 0 0 3.6576 8  
 \*\* BUILDING IDN BLD10  
 \*\* BUILDING NAM Annex 2  
 \*\* BUILDING CRN 68.3 360.4  
 \*\* BUILDING CRN 73.9 355.3  
 \*\* BUILDING CRN 64.6 346.9  
 \*\* BUILDING CRN 80.4 333.4  
 \*\* BUILDING CRN 87.8 342.7  
 \*\* BUILDING CRN 91.5 340.4  
 \*\* BUILDING CRN 100.8 349.7  
 \*\* BUILDING CRN 76.6 371.5  
 \*\* BUILDING BLD 0 0 0 0 4  
 \*\* BUILDING IDN BLD11  
 \*\* BUILDING NAM Annex 3  
 \*\* BUILDING CRN 90.6 375.7  
 \*\* BUILDING CRN 91.0 359.9  
 \*\* BUILDING CRN 111.9 359.5  
 \*\* BUILDING CRN 111.5 378.0  
 \*\* BUILDING BLD 0 0 0 3.6576 13  
 \*\* BUILDING IDN BLD12  
 \*\* BUILDING NAM Annex 4  
 \*\* BUILDING CRN 107.3 360.8  
 \*\* BUILDING CRN 98.0 349.7  
 \*\* BUILDING CRN 129.6 323.7  
 \*\* BUILDING CRN 137.0 330.7  
 \*\* BUILDING CRN 140.7 326.9  
 \*\* BUILDING CRN 156.5 343.2

\*\* BUILDING CRN 145.4 353.9  
\*\* BUILDING CRN 140.3 349.2  
\*\* BUILDING CRN 129.6 359.9  
\*\* BUILDING CRN 126.3 358.5  
\*\* BUILDING CRN 119.8 364.1  
\*\* BUILDING CRN 117.0 361.3  
\*\* BUILDING CRN 112.4 365.5

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 7 Warning Message(s)  
A Total of 0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
SO W320 42 APARM :Input Parameter May Be Out-of-Range for Parameter QS  
RE W216 64 RECAR:FLAG Input Inconsistent With Option: Defaults Used GRD2  
RE W228 65 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228 67 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228 69 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228 71 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228 73 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
\*\*\* 03/01/04 \*\*\* Fugitive Emissions From Service Bay  
\*\*\* 11:07:48  
\*\*MODELOPTs:  
PAGE 1  
CONC URBAN FLAT FLGPOL DFAULT

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

-----  
\*\*Intermediate Terrain Processing is Selected

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

-- SCAVENGING/DEPOSITION LOGIC --

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

\*\*Model Uses URBAN Dispersion.

\*\*Model Uses Regulatory DEFAULT Options:

1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.
4. Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.

- 6. Default Wind Profile Exponents.
- 7. Default Vertical Potential Temperature Gradients.
- 8. "Upper Bound" Values for Supersquat Buildings.
- 9. No Exponential Decay for URBAN/Non-SO2

\*\*Model Assumes Receptors on FLAT Terrain.

\*\*Model Accepts FLAGPOLE Receptor Heights.

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 5 Source(s); 4 Source Group(s); and 231 Receptor(s)

\*\*The Model Assumes A Pollutant Type of: OTHER

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*Output Options Selected:  
Model Outputs Tables of ANNUAL Averages by Receptor

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

Missing Hours

\*\*Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ;  
Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

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

\*\*Input Runstream File: C:\SWAPE\PROJECTS\OMNITRANS\APPENDIX G\PRELIM 5TH STREET.DAT

\*\*Output Print File: C:\SWAPE\PROJECTS\OMNITRANS\APPENDIX G\PRELIM 5TH STREET.LST

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
\*\*\* 03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

PAGE 2

CONC URBAN FLAT FLGPOL DFAULT

\*\*\* AREA SOURCE DATA \*\*\*

Y-DIM	ORIENT.	NUMBER OF AREA	EMISSION RATE INIT.	COORD (SW CORNER)	BASE	RELEASE	X-DIM
AREA	OF AREA	SOURCE PART.	(GRAMS/SEC	X	Y	ELEV.	HEIGHT OF AREA
(METERS)	(DEG.)	SZ	SCALAR VARY	(METERS)	(METERS)	(METERS)	(METERS)
		ID	/METER**2)				
		CATS.	BY				
		(METERS)					

49.00	180.00	YLLWCAB	0	0.33921E-04	445.4	52.9	0.0	0.00	22.30
				HROFDY					
23.90	90.00	ISLAND	0	0.00000E+00	-110.6	185.9	0.0	1.00	17.00
53.20	90.00	SRC2	0	0.82929E-04	-237.3	181.0	0.0	0.00	114.00

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
\*\*\* 03/01/04



\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

PAGE 3

CONC URBAN FLAT FLGPOL DFAULT

\*\*\* AREAPOLY SOURCE DATA \*\*\*

INIT.	EMISSION RATE	NUMBER	EMISSION RATE	LOCATION OF AREA	BASE	RELEASE	NUMBER
SZ	SOURCE	PART.	(GRAMS/SEC	X	Y	ELEV.	HEIGHT OF VERTS.
(METERS)	SCALAR VARY	CATS.	/METER**2)	(METERS)	(METERS)	(METERS)	(METERS)
	ID	BY					

0.00	TACOKID	0	0.12212E-03	37.9	742.4	0.0	0.00	6
	HROFDY							
0.00	PRIETO	0	0.15875E-03	171.1	-161.3	0.0	0.00	5
	HROFDY							

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model

\*\*\* 03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

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CONC URBAN FLAT FLGPOL DFAULT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID SOURCE IDs

METRO SRC2 ,

TACO TACOKID ,

PRIETO PRIETO ,

TAXI YLLWCAB ,

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model

\*\*\* 03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

PAGE 5

CONC URBAN FLAT FLGPOL DFAULT

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
------	--------	------	--------	------	--------	------	--------











```

81 01 01 22 204.5 1.00 287.0 7 483.5 277.4 0.0000 0.0 0.0000
0 0.00
81 01 01 23 203.2 0.00 285.9 7 515.1 269.2 0.0000 0.0 0.0000
0 0.00
81 01 01 24 202.2 0.00 285.4 7 546.7 261.0 0.0000 0.0 0.0000
0 0.00

```

```

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
          FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.
1 *** ISCST3 - VERSION 02035 *** *** Preliminary 5th Street Model
*** 03/01/04
*** Fugitive Emissions From Service Bay
*** 11:07:48
**MODELOPTs:
PAGE 12
CONC

```

```

URBAN FLAT FLGPOL DFAULT
*** THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: METRO ***
INCLUDING SOURCE(S): SRC2 ,
*** NETWORK ID: GRD2 ; NETWORK TYPE:
GRIDCART ***

```

```

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

```

Y-COORD (METERS)		-725.00	-625.00	-525.00	X-COORD (METERS)	-425.00	-325.00
-225.00	-125.00	-25.00	75.00				
766.90		0.33726	0.40513	0.49230	0.59900	0.79497	
0.96104	0.89479	0.74850	0.69706				
666.90		0.42384	0.47550	0.60115	0.74801	1.02032	
1.30488	1.18875	0.98921	0.89473				
566.90		0.59515	0.61948	0.73601	0.98076	1.36424	
1.89397	1.66868	1.40157	1.07791				
466.90		0.91532	0.95301	1.01174	1.32356	1.94719	
3.04405	2.55758	2.03916	1.14945				
366.90		1.33786	1.60722	1.80858	2.01743	3.12727	
5.83059	4.64210	2.56287	1.38366				
266.90		1.72799	2.36913	3.37250	4.72980	6.42969	
16.36655	9.65626	3.99432	3.02229				
166.90		2.07046	3.01554	4.88004	9.42115	25.37249	
185.99438	44.85357	13.62797	6.88729				
66.90		2.19833	3.20516	5.14265	9.67642	25.85194	
217.78876	80.02150	26.29359	11.80195				
-33.10		1.88168	2.52555	3.64898	5.74068	11.96776	
30.78963	18.17266	12.79118	10.08162				
-133.10		1.46780	1.93078	2.54168	3.83218	7.65210	
11.93339	9.23229	5.69556	4.69628				
-233.10		1.21407	1.45006	1.92440	3.28274	4.63463	
6.48198	5.80465	3.75056	2.84087				
-333.10		0.95060	1.18160	1.74601	2.61566	3.16880	
4.13475	3.96703	2.77395	2.14165				
-433.10		0.81111	1.08748	1.60043	1.95891	2.37148	
2.89996	2.87681	2.20222	1.66558				
-533.10		0.75180	1.04371	1.36938	1.50630	1.86058	
2.16525	2.18444	1.79788	1.37450				
-633.10		0.72921	0.97214	1.12472	1.21784	1.50365	
1.68974	1.71978	1.49343	1.17945				

```

1 *** ISCST3 - VERSION 02035 *** *** Preliminary 5th Street Model
*** 03/01/04

```

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
VALUES FOR SOURCE GROUP: METRO \*\*\*

INCLUDING SOURCE(S): SRC2 ,

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)	175.00	275.00	375.00	X-COORD (METERS)	475.00	575.00
675.00						

0.19640	766.90	0.59772	0.42975	0.30070	0.22789	0.19882
0.27711	666.90	0.64802	0.42529	0.30838	0.27044	0.27143
0.36772	566.90	0.65418	0.44603	0.39582	0.39911	0.39290
0.46228	466.90	0.71583	0.64486	0.63099	0.58144	0.51773
0.63155	366.90	1.22799	1.09499	0.93506	0.80589	0.70880
0.84402	266.90	2.32152	1.81554	1.46203	1.20044	1.00009
1.00443	166.90	4.20694	2.84687	2.06191	1.56813	1.23728
1.21724	66.90	6.45715	4.03662	2.76126	2.01308	1.53787
1.49392	-33.10	6.96119	4.76047	3.37551	2.48996	1.90089
1.63103	-133.10	4.57680	3.96661	3.18946	2.52374	2.01383
1.57773	-233.10	2.46426	2.51196	2.42695	2.17060	1.86284
1.39461	-333.10	1.72172	1.53865	1.57701	1.59781	1.52758
1.11421	-433.10	1.40743	1.16593	1.06283	1.08542	1.12072
0.82759	-533.10	1.15273	1.00000	0.84825	0.78414	0.79675
0.61285	-633.10	0.96524	0.85819	0.74961	0.64874	0.60595

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
\*\*\* 03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
VALUES FOR SOURCE GROUP: METRO \*\*\*

INCLUDING SOURCE(S): SRC2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*



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

\*\*

COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-
-----------	-------------	-------------	------	-------------	----

291.40	55.40	149.30	8.81384	103.80	
--------	-------	--------	---------	--------	--

524.50	228.80	396.60	0.98169	308.40	
--------	--------	--------	---------	--------	--

204.70	385.00	655.40	0.30634	-2.40	
--------	--------	--------	---------	-------	--

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\*                    11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: TACO

\*\*\*

INCLUDING SOURCE(S):      TACOKID ,

\*\*\* NETWORK ID: GRD2      ;    NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)		-725.00	-625.00	-525.00	X-COORD (METERS)	
-225.00	-125.00	-25.00	75.00		-425.00	-325.00

766.90	0.00097	0.00125	0.00169	0.00244	0.00385
0.00707	0.01742	0.09851	0.12834		
666.90	0.00093	0.00119	0.00158	0.00224	0.00344
0.00599	0.01233	0.03306	0.06377		
566.90	0.00083	0.00104	0.00134	0.00175	0.00245
0.00384	0.00481	0.01411	0.01271		
466.90	0.00071	0.00084	0.00106	0.00142	0.00176
0.00193	0.00389	0.00639	0.00544		
366.90	0.00060	0.00075	0.00092	0.00101	0.00105
0.00160	0.00290	0.00362	0.00316		
266.90	0.00056	0.00063	0.00065	0.00067	0.00087
0.00149	0.00207	0.00234	0.00210		
166.90	0.00046	0.00046	0.00047	0.00055	0.00086
0.00126	0.00153	0.00165	0.00151		
66.90	0.00034	0.00035	0.00039	0.00055	0.00081
0.00103	0.00117	0.00123	0.00114		
-33.10	0.00027	0.00029	0.00038	0.00055	0.00072
0.00084	0.00093	0.00096	0.00090		
-133.10	0.00023	0.00028	0.00039	0.00052	0.00062
0.00070	0.00076	0.00077	0.00073		
-233.10	0.00022	0.00028	0.00038	0.00047	0.00054
0.00060	0.00063	0.00064	0.00061		
-333.10	0.00022	0.00029	0.00036	0.00042	0.00047
0.00051	0.00053	0.00054	0.00052		
-433.10	0.00022	0.00029	0.00034	0.00038	0.00042
0.00044	0.00046	0.00046	0.00045		
-533.10	0.00023	0.00027	0.00031	0.00034	0.00037
0.00039	0.00040	0.00040	0.00039		

-633.10 | 0.00022 0.00026 0.00028 0.00031 0.00033  
 0.00034 0.00035 0.00035 0.00034  
 1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
 \*\*\* 03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

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CONC URBAN FLAT FLGPOL DFAULT

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

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:  
 GRIDCART \*\*\*

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

Y-COORD | X-COORD (METERS)  
 (METERS) | 175.00 275.00 375.00 475.00 575.00  
 675.00

-----  
 766.90 | 0.03892 0.01672 0.00914 0.00577 0.00398  
 0.00293  
 666.90 | 0.07124 0.02925 0.01427 0.00829 0.00540  
 0.00381  
 566.90 | 0.01204 0.01530 0.01320 0.00925 0.00640  
 0.00458  
 466.90 | 0.00440 0.00495 0.00590 0.00629 0.00554  
 0.00449  
 366.90 | 0.00272 0.00241 0.00269 0.00307 0.00344  
 0.00342  
 266.90 | 0.00184 0.00152 0.00157 0.00170 0.00188  
 0.00211  
 166.90 | 0.00129 0.00116 0.00103 0.00110 0.00118  
 0.00127  
 66.90 | 0.00096 0.00093 0.00078 0.00077 0.00082  
 0.00086  
 -33.10 | 0.00075 0.00074 0.00065 0.00058 0.00061  
 0.00064  
 -133.10 | 0.00061 0.00060 0.00056 0.00048 0.00047  
 0.00049  
 -233.10 | 0.00052 0.00049 0.00049 0.00042 0.00038  
 0.00039  
 -333.10 | 0.00044 0.00041 0.00042 0.00038 0.00033  
 0.00032  
 -433.10 | 0.00039 0.00035 0.00036 0.00034 0.00030  
 0.00027  
 -533.10 | 0.00034 0.00030 0.00031 0.00031 0.00027  
 0.00024  
 -633.10 | 0.00030 0.00027 0.00027 0.00027 0.00025  
 0.00022

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
 \*\*\* 03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

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CONC URBAN FLAT FLGPOL DFAULT

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-
-----------	-------------	-------------	------	-------------	----

291.40	55.40	149.30	0.00149	103.80	
	0.00211				
524.50	228.80	396.60	0.00279	308.40	
	0.00956				
204.70	385.00	655.40	0.01385	-2.40	
	0.00187				

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model

\*\*\* 03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: PRIETO

\*\*\*

INCLUDING SOURCE(S): PRIETO ,

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)	X-COORD (METERS)	CONC	CONC	CONC	CONC	CONC
------------------	------------------	------	------	------	------	------

766.90	0.00187	0.00201	0.00221	0.00256	0.00313
0.00364	0.00383	0.00421	0.00482		
666.90	0.00212	0.00229	0.00250	0.00282	0.00340
0.00420	0.00465	0.00503	0.00587		
566.90	0.00255	0.00266	0.00289	0.00322	0.00375
0.00476	0.00572	0.00618	0.00730		
466.90	0.00328	0.00331	0.00344	0.00380	0.00433
0.00534	0.00697	0.00790	0.00933		
366.90	0.00410	0.00438	0.00448	0.00467	0.00524
0.00621	0.00827	0.01049	0.01235		
266.90	0.00464	0.00538	0.00607	0.00644	0.00676
0.00778	0.00984	0.01413	0.01722		
166.90	0.00525	0.00614	0.00732	0.00879	0.01002
0.01077	0.01287	0.01840	0.02622		
66.90	0.00564	0.00690	0.00852	0.01062	0.01356
0.01730	0.02002	0.02565	0.04456		
-33.10	0.00543	0.00682	0.00881	0.01177	0.01627
0.02326	0.03465	0.04989	0.07728		
-133.10	0.00500	0.00625	0.00806	0.01085	0.01543
0.02377	0.04131	0.08661	0.24151		
-233.10	0.00449	0.00554	0.00705	0.00931	0.01293
0.01933	0.03231	0.06497	0.17861		
-333.10	0.00411	0.00508	0.00646	0.00846	0.01138
0.01550	0.02141	0.03087	0.05429		
-433.10	0.00398	0.00474	0.00562	0.00661	0.00794
0.01004	0.01157	0.01579	0.04024		

-533.10		0.00329	0.00365	0.00417	0.00497	0.00574
0.00590		0.00748	0.01533	0.02279		
-633.10		0.00260	0.00300	0.00343	0.00360	0.00359
0.00438		0.00738	0.01265	0.01429		

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*            03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\*            11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL DFAULT

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

\*\*\* NETWORK ID: GRD2      ;      NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)					X-COORD (METERS)	
		175.00	275.00	375.00	475.00	575.00
675.00						

766.90		0.00509	0.00524	0.00532	0.00499	0.00459
0.00429						
666.90		0.00629	0.00651	0.00653	0.00599	0.00551
0.00500						
566.90		0.00800	0.00833	0.00819	0.00737	0.00672
0.00573						
466.90		0.01053	0.01103	0.01052	0.00936	0.00814
0.00641						
366.90		0.01453	0.01530	0.01399	0.01219	0.00960
0.00707						
266.90		0.02140	0.02255	0.01959	0.01575	0.01100
0.00817						
166.90		0.03468	0.03607	0.02912	0.01939	0.01326
0.01065						
66.90		0.06595	0.06526	0.04245	0.02513	0.01910
0.01565						
-33.10		0.17203	0.14465	0.06462	0.04390	0.03237
0.02446						
-133.10		1.22401	0.43052	0.17525	0.09111	0.05470
0.03619						
-233.10		1.52766	1.57471	0.40624	0.16066	0.08340
0.05060						
-333.10		0.13870	0.12331	0.18825	0.15188	0.09917
0.06408						
-433.10		0.04759	0.03469	0.04830	0.06158	0.06182
0.05337						
-533.10		0.02405	0.01936	0.01790	0.02522	0.02986
0.03129						
-633.10		0.01458	0.01235	0.00981	0.01214	0.01539
0.01751						

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model

\*\*\*            03/01/04

\*\*\* Fugitive Emissions From Service Bay

\*\*\*            11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL DFAULT

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-
	55.40	149.30	0.02727	103.80	
291.40	0.01704				
	228.80	396.60	0.01355	308.40	
524.50	0.00939				
	385.00	655.40	0.00666	-2.40	
204.70	0.01832				
1 ***	ISCST3 - VERSION 02035 *** Preliminary 5th Street Model				
***	03/01/04 *** Fugitive Emissions From Service Bay				
***	11:07:48				
**MODELOPTs:					
PAGE 21					
CONC	URBAN FLAT FLGPOL DFAULT				

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

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)	X-COORD (METERS)	CONC	CONC	CONC	CONC	CONC
-225.00	-725.00	-125.00	-25.00	75.00	-425.00	-325.00
766.90	0.00036	0.00037	0.00037	0.00037	0.00038	0.00040
0.00044	0.00050	0.00060	0.00077			
666.90	0.00040	0.00045	0.00048	0.00048	0.00048	0.00049
0.00052	0.00059	0.00069	0.00089			
566.90	0.00044	0.00049	0.00056	0.00056	0.00062	0.00066
0.00067	0.00072	0.00083	0.00103			
466.90	0.00048	0.00055	0.00062	0.00062	0.00072	0.00084
0.00094	0.00098	0.00106	0.00128			
366.90	0.00051	0.00060	0.00070	0.00070	0.00082	0.00097
0.00117	0.00141	0.00159	0.00175			
266.90	0.00050	0.00059	0.00072	0.00072	0.00088	0.00110
0.00138	0.00176	0.00230	0.00295			
166.90	0.00047	0.00056	0.00068	0.00068	0.00084	0.00108
0.00142	0.00196	0.00282	0.00425			
66.90	0.00044	0.00052	0.00062	0.00062	0.00077	0.00098
0.00128	0.00177	0.00261	0.00427			
-33.10	0.00040	0.00047	0.00056	0.00056	0.00068	0.00085
0.00111	0.00150	0.00215	0.00338			
-133.10	0.00037	0.00044	0.00052	0.00052	0.00064	0.00080
0.00103	0.00134	0.00174	0.00229			
-233.10	0.00037	0.00043	0.00050	0.00050	0.00059	0.00069
0.00080	0.00094	0.00118	0.00136			

-333.10		0.00034	0.00038	0.00042	0.00046	0.00052
0.00061		0.00071	0.00073	0.00084		
-433.10		0.00028	0.00030	0.00033	0.00038	0.00044
0.00046		0.00045	0.00052	0.00078		
-533.10		0.00023	0.00026	0.00030	0.00032	0.00032
0.00031		0.00035	0.00048	0.00081		
-633.10		0.00021	0.00023	0.00024	0.00023	0.00023
0.00025		0.00033	0.00050	0.00076		

11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: TAXI

\*\*\*

INCLUDING SOURCE(S): YLLWCAB ,

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)		175.00	275.00	375.00	X-COORD (METERS)	475.00	575.00
675.00							

766.90		0.00087	0.00098	0.00114	0.00120	0.00123
0.00113						
666.90		0.00111	0.00125	0.00150	0.00160	0.00162
0.00144						
566.90		0.00142	0.00167	0.00207	0.00225	0.00221
0.00192						
466.90		0.00175	0.00238	0.00302	0.00340	0.00318
0.00263						
366.90		0.00224	0.00354	0.00481	0.00573	0.00495
0.00348						
266.90		0.00344	0.00512	0.00882	0.01155	0.00837
0.00454						
166.90		0.00675	0.00988	0.02172	0.03277	0.01365
0.00828						
66.90		0.00823	0.02157	0.10197	0.20552	0.04627
0.01934						
-33.10		0.00606	0.01266	0.03370	0.11979	0.09159
0.03481						
-133.10		0.00320	0.00424	0.01343	0.01177	0.01680
0.01956						
-233.10		0.00160	0.00375	0.00553	0.00488	0.00426
0.00645						
-333.10		0.00149	0.00269	0.00302	0.00266	0.00207
0.00260						
-433.10		0.00143	0.00177	0.00191	0.00169	0.00140
0.00130						
-533.10		0.00115	0.00125	0.00132	0.00117	0.00102
0.00083						
-633.10		0.00088	0.00093	0.00097	0.00087	0.00078
0.00063						

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*

\*\*\* Preliminary 5th Street Model

\*\*\* 03/01/04

\*\*\* Fugitive Emissions From Service Bay

11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

VALUES FOR SOURCE GROUP: TAXI

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION

\*\*\*

INCLUDING SOURCE(S): YLLWCAB ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-
-----------	-------------	-------------	------	-------------	----

291.40	55.40	149.30	0.00403	103.80	
--------	-------	--------	---------	--------	--

	0.00266				
--	---------	--	--	--	--

524.50	228.80	396.60	0.00261	308.40	
--------	--------	--------	---------	--------	--

	0.00204				
--	---------	--	--	--	--

204.70	385.00	655.40	0.00157	-2.40	
--------	--------	--------	---------	-------	--

	0.00288				
--	---------	--	--	--	--

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\* Preliminary 5th Street Model

\*\*\* 03/01/04 \*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL ( 1

YRS) RESULTS \*\*\*

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

\*\*

NETWORK

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

METRO	1ST HIGHEST VALUE IS		217.78876 AT (	-225.00, 66.90,
-------	----------------------	--	----------------	-----------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	2ND HIGHEST VALUE IS		185.99438 AT (	-225.00, 166.90,
-------	----------------------	--	----------------	------------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	3RD HIGHEST VALUE IS		80.02150 AT (	-125.00, 66.90,
-------	----------------------	--	---------------	-----------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	4TH HIGHEST VALUE IS		44.85357 AT (	-125.00, 166.90,
-------	----------------------	--	---------------	------------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	5TH HIGHEST VALUE IS		30.78963 AT (	-225.00, -33.10,
-------	----------------------	--	---------------	------------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	6TH HIGHEST VALUE IS		26.29359 AT (	-25.00, 66.90,
-------	----------------------	--	---------------	----------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	7TH HIGHEST VALUE IS		25.85194 AT (	-325.00, 66.90,
-------	----------------------	--	---------------	-----------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	8TH HIGHEST VALUE IS		25.37249 AT (	-325.00, 166.90,
-------	----------------------	--	---------------	------------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	9TH HIGHEST VALUE IS		18.17266 AT (	-125.00, -33.10,
-------	----------------------	--	---------------	------------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

0.00,	10TH HIGHEST VALUE IS		16.36655 AT (	-225.00, 266.90,
-------	-----------------------	--	---------------	------------------

0.00,	2.00) GC GRD2			
-------	---------------	--	--	--

TACO 1ST HIGHEST VALUE IS 0.12834 AT ( 75.00, 766.90,  
0.00, 2.00) GC GRD2  
2ND HIGHEST VALUE IS 0.09851 AT ( -25.00, 766.90,  
0.00, 2.00) GC GRD2  
3RD HIGHEST VALUE IS 0.07124 AT ( 175.00, 666.90,  
0.00, 2.00) GC GRD2  
4TH HIGHEST VALUE IS 0.06377 AT ( 75.00, 666.90,  
0.00, 2.00) GC GRD2  
5TH HIGHEST VALUE IS 0.03892 AT ( 175.00, 766.90,  
0.00, 2.00) GC GRD2  
6TH HIGHEST VALUE IS 0.03306 AT ( -25.00, 666.90,  
0.00, 2.00) GC GRD2  
7TH HIGHEST VALUE IS 0.02925 AT ( 275.00, 666.90,  
0.00, 2.00) GC GRD2  
8TH HIGHEST VALUE IS 0.01742 AT ( -125.00, 766.90,  
0.00, 2.00) GC GRD2  
9TH HIGHEST VALUE IS 0.01672 AT ( 275.00, 766.90,  
0.00, 2.00) GC GRD2  
10TH HIGHEST VALUE IS 0.01530 AT ( 275.00, 566.90,  
0.00, 2.00) GC GRD2

PRIETO 1ST HIGHEST VALUE IS 1.57471 AT ( 275.00, -233.10,  
0.00, 2.00) GC GRD2  
2ND HIGHEST VALUE IS 1.52766 AT ( 175.00, -233.10,  
0.00, 2.00) GC GRD2  
3RD HIGHEST VALUE IS 1.22401 AT ( 175.00, -133.10,  
0.00, 2.00) GC GRD2  
4TH HIGHEST VALUE IS 0.43052 AT ( 275.00, -133.10,  
0.00, 2.00) GC GRD2  
5TH HIGHEST VALUE IS 0.40624 AT ( 375.00, -233.10,  
0.00, 2.00) GC GRD2  
6TH HIGHEST VALUE IS 0.24151 AT ( 75.00, -133.10,  
0.00, 2.00) GC GRD2  
7TH HIGHEST VALUE IS 0.18825 AT ( 375.00, -333.10,  
0.00, 2.00) GC GRD2  
8TH HIGHEST VALUE IS 0.17861 AT ( 75.00, -233.10,  
0.00, 2.00) GC GRD2  
9TH HIGHEST VALUE IS 0.17525 AT ( 375.00, -133.10,  
0.00, 2.00) GC GRD2  
10TH HIGHEST VALUE IS 0.17203 AT ( 175.00, -33.10,  
0.00, 2.00) GC GRD2

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*  
\*\*\* 03/01/04

\*\*\* Preliminary 5th Street Model

\*\*\* Fugitive Emissions From Service Bay

\*\*\* 11:07:48

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL ( 1

YRS) RESULTS \*\*\*

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

\*\*

NETWORK

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

TAXI 1ST HIGHEST VALUE IS 0.20552 AT ( 475.00, 66.90,  
0.00, 2.00) GC GRD2  
2ND HIGHEST VALUE IS 0.11979 AT ( 475.00, -33.10,  
0.00, 2.00) GC GRD2



0.00,	3RD HIGHEST VALUE IS	0.10197 AT (	375.00,	66.90,
	2.00) GC GRD2			
0.00,	4TH HIGHEST VALUE IS	0.09159 AT (	575.00,	-33.10,
	2.00) GC GRD2			
0.00,	5TH HIGHEST VALUE IS	0.04627 AT (	575.00,	66.90,
	2.00) GC GRD2			
0.00,	6TH HIGHEST VALUE IS	0.03481 AT (	675.00,	-33.10,
	2.00) GC GRD2			
0.00,	7TH HIGHEST VALUE IS	0.03370 AT (	375.00,	-33.10,
	2.00) GC GRD2			
0.00,	8TH HIGHEST VALUE IS	0.03277 AT (	475.00,	166.90,
	2.00) GC GRD2			
0.00,	9TH HIGHEST VALUE IS	0.02172 AT (	375.00,	166.90,
	2.00) GC GRD2			
0.00,	10TH HIGHEST VALUE IS	0.02157 AT (	275.00,	66.90,
	2.00) GC GRD2			

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

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
 \*\*\* 03/01/04 \*\*\*  
 \*\*\* Fugitive Emissions From Service Bay  
 \*\*\* 11:07:48

\*\*MODELOPTs:

PAGE 26

CONC URBAN FLAT FLGPOL DFAULT

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

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

A Total of 0 Fatal Error Message(s)  
 A Total of 7 Warning Message(s)  
 A Total of 1062 Informational Message(s)  
 A Total of 1062 Calm Hours Identified

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 SO W320 42 APARM :Input Parameter May Be Out-of-Range for Parameter QS  
 RE W216 64 RECAR:FLAG Input Inconsistent With Option: Defaults Used GRD2  
 RE W228 65 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
 RE W228 67 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
 RE W228 69 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
 RE W228 71 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
 RE W228 73 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART

\*\*\*\*\*  
 \*\*\* ISCST3 Finishes Successfully \*\*\*  
 \*\*\*\*\*

# FUEL DISPENSER

# ISCST3X PC (32 BIT) VERSION 4.0.1

(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on 2/29/2004 at 23:19:25

\*\* BREEZE ISC GIS Pro v4.0.13 - C:\SWAPE\Projects\Omnitrans\Appendix G\prelim 5th  
street fueling island.dat  
\*\* Trinity Consultants

CO STARTING  
CO TITLEONE Preliminary 5th Street Model  
CO TITLETWO TOG Only  
CO MODELOPT DEFAULT CONC URBAN  
CO AVERTIME ANNUAL  
CO POLLUTID TOG  
CO TERRHGTS FLAT  
CO FLAGPOLE 2  
CO RUNORNOT RUN  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS  
SO LOCATION METRO AREA -280.0 197.7 0  
\*\* SRCDESCR Metro Station Repair Bays  
SO LOCATION YLLWCAB AREA 445.4 52.9 0  
\*\* SRCDESCR Yellow Cab/Bell Cabstop  
SO LOCATION TACOKID AREAPOLY 37.9 742.4 0  
\*\* SRCDESCR Taco Kid  
SO LOCATION PRIETO AREAPOLY 171.1 -161.3 0  
\*\* SRCDESCR Prieto Auto Body  
SO LOCATION Island AREA -110.6 185.9 0  
\*\* SRCDESCR Fueling Islands  
SO SRCPARAM METRO 0.000000E+00 0 193.4 278.6 89.1 0  
SO SRCPARAM YLLWCAB 0.000000E+00 0 22.3 49.00002 180 0  
SO SRCPARAM TACOKID 0.000000E+00 0 6 0  
SO AREAVERT TACOKID 37.9 742.4 23.2 742.4 23.2 737.9 18.0 737.5  
SO AREAVERT TACOKID 18.0 731.3 38.2 731.3  
SO SRCPARAM PRIETO 0.000000E+00 0 5 0  
SO AREAVERT PRIETO 171.1 -161.3 202.5 -162.0 205.3 -221.9 176.0 -220.5  
SO AREAVERT PRIETO 175.3 -160.6  
SO SRCPARAM Island 2.424179E-05 1 17 23.9 90 0  
SO EMISFACT YLLWCAB HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1  
SO EMISFACT YLLWCAB HROFDY 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0  
SO EMISFACT YLLWCAB HROFDY 0.0 0.0 0.0 0.0  
SO EMISFACT TACOKID HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.07692 0.07692  
0.07692  
SO EMISFACT TACOKID HROFDY 0.07692 0.07692 0.07692 0.07692 0.07692 0.07692  
SO EMISFACT TACOKID HROFDY 0.07692 0.07692 0.07692 0.07692 0.0 0.0 0.0  
SO EMISFACT TACOKID HROFDY 0.0 0.0  
SO EMISFACT PRIETO HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1  
SO EMISFACT PRIETO HROFDY 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0 0.0  
SO EMISFACT PRIETO HROFDY 0.0 0.0 0.0 0.0  
SO SRCGROUP SRC7 PRIETO  
SO SRCGROUP SRC10 TACOKID  
SO SRCGROUP SRC11 YLLWCAB  
SO SRCGROUP SRC12 METRO  
SO SRCGROUP Island Island  
SO FINISHED  
  
RE STARTING  
RE GRIDCART GRD2 STA 0  
\*\* GRDDESCR 100 Meter Cartesian Grid  
RE GRIDCART GRD2 XYINC -725.0 15 100.0 -633.1 15 100.0  
RE GRIDCART GRD2 END  
RE DISCCART 55.4 149.3

```

** RCPDESCR 500 ft receptor
RE DISCCART 103.8 291.4
** RCPDESCR 1000 ft receptor
RE DISCCART 228.8 396.6
** RCPDESCR 1500 ft receptor
RE DISCCART 308.4 524.5
** RCPDESCR 2000 ft receptor
RE DISCCART 385.0 655.4
** RCPDESCR 2500 ft receptor
RE DISCCART -2.4 204.7 2
** RCPDESCR Worst Case Receptor
RE FINISHED

ME STARTING
ME INPUTFIL "C:\SWAPE\PROJECTS\MET DATA\RIVERSD.ASC"
ME ANEMHGHT 10 METERS
ME SURFDATA 54139 1981
ME UAIRDATA 99999 1981
ME STARTEND 1981 01 01 1 1981 12 31 24
ME FINISHED

OU STARTING
OU FINISHED

** PROJECTN 0 104 7 -177 0 0.9996 500000 0
** IMAGE2 "C:\DOCUMENTS AND SETTINGS\JCLARK\DESKTOP\SB02-576_606_BW COPY.TAB"
** BMP "C:\DOCUMENTS AND SETTINGS\JCLARK\DESKTOP\SB02-576_606_BW COPY.JPG" -
1954.27778533101 -2048.59353366494 0.4623321
** OUTFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\prelim 5th street fueling
island.lst"
** RAWFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\prelim 5th street fueling
island.RAW"
** RAWFMT 2
** HILLBOUN 0 0 0 0

** POLLUTNT IDN 01 OTHER
** POLLUTNT NAM 01 Other
** POLLUTNT IDN 02 H2S
** POLLUTNT NAM 02 Hydrogen Sulfide
** POLLUTNT IDN 03 MEMERC
** POLLUTNT NAM 03 Methyl Mercaptan
** POLLUTNT IDN 04 TOG X
** POLLUTNT NAM 04 TOG
** POLLUTNT EMS METRO 1.216027E-06 0 0 0
** POLLUTNT EMS YLLWCAB 3.392130E-05 0 0 0
** POLLUTNT EMS TACOKID 1.221167E-04 0 0 0
** POLLUTNT EMS PRIETO 1.587517E-04 0 0 0
** POLLUTNT EMS Island 0 0 0 2.424179E-05

** BUILDING BLD 0 0 0 10.668 4
** BUILDING IDN BLD2
** BUILDING NAM Washing Station
** BUILDING REC -167.0 185.9 24.7 24.7 90.0
** BUILDING BLD 0 0 0 12.192 4
** BUILDING IDN BLD3
** BUILDING NAM Main Building
** BUILDING REC -210.4 133.2 59.8 73.8 90.0
** BUILDING BLD 0 0 0 9.144 10
** BUILDING IDN BLD4
** BUILDING NAM Service Bays
** BUILDING CRN -237.8 179.8
** BUILDING CRN -236.9 67.4
** BUILDING CRN -183.0 66.9
** BUILDING CRN -182.5 72.9
** BUILDING CRN -210.4 73.4
** BUILDING CRN -210.4 132.4
** BUILDING CRN -190.0 132.4

```

\*\* BUILDING CRN -190.0 181.2  
 \*\* BUILDING CRN -190.0 181.2  
 \*\* BUILDING CRN -237.4 180.7  
 \*\* BUILDING BLD 0 0 0 9.144 9  
 \*\* BUILDING IDN BLD5  
 \*\* BUILDING NAM Front Office of Omnitrans  
 \*\* BUILDING CRN -157.9 72.9  
 \*\* BUILDING CRN -159.8 26.9  
 \*\* BUILDING CRN -152.4 23.2  
 \*\* BUILDING CRN -113.8 21.9  
 \*\* BUILDING CRN -114.3 24.2  
 \*\* BUILDING CRN -94.3 24.6  
 \*\* BUILDING CRN -94.3 46.9  
 \*\* BUILDING CRN -141.2 48.3  
 \*\* BUILDING CRN -141.2 74.3  
 \*\* BUILDING BLD 0 0 0 3.048 4  
 \*\* BUILDING IDN BLD6  
 \*\* BUILDING NAM Guard Shack  
 \*\* BUILDING REC -17.1 51.2 5.8 6.7 90.0  
 \*\* BUILDING BLD 0 0 0 3.6576 4  
 \*\* BUILDING IDN BLD7  
 \*\* BUILDING NAM LNG Storage Facility  
 \*\* BUILDING REC -271.1 186.7 29.3 14.4 90.0  
 \*\* BUILDING BLD 0 0 0 9.144 12  
 \*\* BUILDING IDN BLD8  
 \*\* BUILDING NAM Main School Bldg  
 \*\* BUILDING CRN 43.2 390.6  
 \*\* BUILDING CRN 43.2 370.6  
 \*\* BUILDING CRN 51.6 370.1  
 \*\* BUILDING CRN 51.1 377.1  
 \*\* BUILDING CRN 131.9 376.7  
 \*\* BUILDING CRN 131.4 369.7  
 \*\* BUILDING CRN 141.2 371.1  
 \*\* BUILDING CRN 140.3 405.9  
 \*\* BUILDING CRN 130.5 405.9  
 \*\* BUILDING CRN 131.0 397.5  
 \*\* BUILDING CRN 52.0 397.5  
 \*\* BUILDING CRN 52.0 392.5  
 \*\* BUILDING BLD 0 0 0 3.6576 4  
 \*\* BUILDING IDN BLD9  
 \*\* BUILDING NAM Annex 1  
 \*\* BUILDING REC 23.3 381.3 9.8 14.4 90.0  
 \*\* BUILDING BLD 0 0 0 3.6576 8  
 \*\* BUILDING IDN BLD10  
 \*\* BUILDING NAM Annex 2  
 \*\* BUILDING CRN 68.3 360.4  
 \*\* BUILDING CRN 73.9 355.3  
 \*\* BUILDING CRN 64.6 346.9  
 \*\* BUILDING CRN 80.4 333.4  
 \*\* BUILDING CRN 87.8 342.7  
 \*\* BUILDING CRN 91.5 340.4  
 \*\* BUILDING CRN 100.8 349.7  
 \*\* BUILDING CRN 76.6 371.5  
 \*\* BUILDING BLD 0 0 0 0 4  
 \*\* BUILDING IDN BLD11  
 \*\* BUILDING NAM Annex 3  
 \*\* BUILDING CRN 90.6 375.7  
 \*\* BUILDING CRN 91.0 359.9  
 \*\* BUILDING CRN 111.9 359.5  
 \*\* BUILDING CRN 111.5 378.0  
 \*\* BUILDING BLD 0 0 0 3.6576 13  
 \*\* BUILDING IDN BLD12  
 \*\* BUILDING NAM Annex 4  
 \*\* BUILDING CRN 107.3 360.8  
 \*\* BUILDING CRN 98.0 349.7  
 \*\* BUILDING CRN 129.6 323.7  
 \*\* BUILDING CRN 137.0 330.7

\*\* BUILDING CRN 140.7 326.9  
\*\* BUILDING CRN 156.5 343.2  
\*\* BUILDING CRN 145.4 353.9  
\*\* BUILDING CRN 140.3 349.2  
\*\* BUILDING CRN 129.6 359.9  
\*\* BUILDING CRN 126.3 358.5  
\*\* BUILDING CRN 119.8 364.1  
\*\* BUILDING CRN 117.0 361.3  
\*\* BUILDING CRN 112.4 365.5

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 10 Warning Message(s)  
A Total of 0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
SO W320 35 APMR :Input Parameter May Be Out-of-Range for Parameter QS  
SO W320 36 APMR :Input Parameter May Be Out-of-Range for Parameter QS  
SO W320 37 APPARM:Input Parameter May Be Out-of-Range for Parameter QS  
SO W320 40 APPARM:Input Parameter May Be Out-of-Range for Parameter QS  
RE W216 65 RECAR:FLAG Input Inconsistent With Option: Defaults Used GRD2  
RE W228 66 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228 68 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228 70 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228 72 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228 74 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
\*\*\* 02/29/04

\*\*\* TOG Only

\*\*\* 23:19:26

\*\*MODELOPTs:

PAGE 1

CONC URBAN FLAT FLGPOL DFAULT

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

-----  
\*\*Intermediate Terrain Processing is Selected

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

-- SCAVENGING/DEPOSITION LOGIC --

\*\*Model Uses NO DRY DEPLETION. DDPLETE = F

\*\*Model Uses NO WET DEPLETION. WDPLETE = F

\*\*NO WET SCAVENGING Data Provided.

\*\*NO GAS DRY DEPOSITION Data Provided.

\*\*Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

\*\*Model Uses URBAN Dispersion.

\*\*Model Uses Regulatory DEFAULT Options:









-633.1, -533.1, -433.1, -333.1, -233.1, -133.1, -33.1,  
 66.9, 166.9, 266.9,  
 366.9, 466.9, 566.9, 666.9, 766.9,  
 1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
 \*\*\* 02/29/04

\*\*\* TOG Only

\*\*\* 23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE: GRIDCART

\*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)		-725.00	-625.00	-525.00	X-COORD (METERS)	-425.00	-325.00
-225.00	-125.00	-25.00	75.00				
766.90		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
666.90		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
566.90		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
466.90		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
366.90		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
266.90		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
166.90		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
66.90		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
-33.10		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
-133.10		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
-233.10		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
-333.10		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
-433.10		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
-533.10		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
-633.10		2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
 \*\*\* 02/29/04

\*\*\* TOG Only

\*\*\* 23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE: GRIDCART

\*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)	175.00	275.00	375.00	475.00	575.00
675.00					

2.00	766.90	2.00	2.00	2.00	2.00	2.00
2.00	666.90	2.00	2.00	2.00	2.00	2.00
2.00	566.90	2.00	2.00	2.00	2.00	2.00
2.00	466.90	2.00	2.00	2.00	2.00	2.00
2.00	366.90	2.00	2.00	2.00	2.00	2.00
2.00	266.90	2.00	2.00	2.00	2.00	2.00
2.00	166.90	2.00	2.00	2.00	2.00	2.00
2.00	66.90	2.00	2.00	2.00	2.00	2.00
2.00	-33.10	2.00	2.00	2.00	2.00	2.00
2.00	-133.10	2.00	2.00	2.00	2.00	2.00
2.00	-233.10	2.00	2.00	2.00	2.00	2.00
2.00	-333.10	2.00	2.00	2.00	2.00	2.00
2.00	-433.10	2.00	2.00	2.00	2.00	2.00
2.00	-533.10	2.00	2.00	2.00	2.00	2.00
2.00	-633.10	2.00	2.00	2.00	2.00	2.00

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*            02/29/04

\*\*\* TOG Only

\*\*\*            23:19:26

\*\*MODELOPTs:

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CONC                            URBAN FLAT    FLGPOL    DFAULT

\*\*\* DISCRETE CARTESIAN RECEPTORS \*\*\*  
 (X-COORD, Y-COORD, ZELEV, ZFLAG)  
 (METERS)

0.0,	( 55.4,	149.3,	0.0,	2.0);	( 103.8,	291.4,
	2.0);					
0.0,	( 228.8,	396.6,	0.0,	2.0);	( 308.4,	524.5,
	2.0);					
0.0,	( 385.0,	655.4,	0.0,	2.0);	( -2.4,	204.7,
	2.0);					

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*            02/29/04

\*\*\* TOG Only

\*\*\*            23:19:26

\*\*MODELOPTs:

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CONC                            URBAN FLAT    FLGPOL    DFAULT

\*\*\* METEOROLOGICAL DAYS SELECTED FOR

PROCESSING \*\*\*

(1=YES; 0=NO)







-433.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-533.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-633.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    02/29/04

\*\*\* TOG Only

\*\*\*                    23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL    DFAULT

VALUES FOR SOURCE GROUP: SRC7      \*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
 \*\*\*

INCLUDING SOURCE(S):            PRIETO ,

\*\*\* NETWORK ID: GRD2            ;    NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF TOG                    IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS)		175.00	275.00	375.00	X-COORD (METERS)	475.00	575.00
675.00							

-----

766.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
666.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
566.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
466.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
366.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
266.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
166.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
66.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-33.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-133.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-233.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-333.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-433.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-533.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-633.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    02/29/04

\*\*\* TOG Only

\*\*\*                    23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL    DFAULT





-333.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-433.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-533.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-633.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    02/29/04

\*\*\* TOG Only

\*\*\*                    23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL    DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: SRC10      \*\*\*

INCLUDING SOURCE(S):            TACOKID ,

\*\*\* NETWORK ID: GRD2            ;    NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF TOG                    IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS)		175.00	275.00	375.00	X-COORD (METERS)	475.00	575.00
675.00							

-----

766.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
666.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
566.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
466.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
366.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
266.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
166.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
66.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-33.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-133.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-233.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-333.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-433.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-533.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-633.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    02/29/04

\*\*\* TOG Only

\*\*\*                    23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

VALUES FOR SOURCE GROUP: SRC10 \*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION \*\*\* INCLUDING SOURCE(S): TACOKID ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF TOG IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

291.40 55.40 149.30 0.00000 103.80 0.00000
524.50 228.80 396.60 0.00000 308.40 0.00000
204.70 385.00 655.40 0.00000 -2.40 0.00000

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* Preliminary 5th Street Model
\*\*\* 02/29/04 \*\*\*

\*\*\* TOG Only

\*\*\* 23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

VALUES FOR SOURCE GROUP: SRC11 \*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION \*\*\* INCLUDING SOURCE(S): YLLWCAB ,

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF TOG IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS) | X-COORD (METERS)
-225.00 -125.00 -725.00 -625.00 -525.00 -425.00 -325.00
-225.00 -125.00 -25.00 75.00

766.90 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
666.90 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
566.90 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
466.90 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
366.90 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
266.90 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
166.90 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
66.90 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
-33.10 | 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000

-133.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-233.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-333.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-433.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-533.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-633.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    02/29/04

\*\*\* TOG Only

\*\*\*                    23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL    DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SRC11

\*\*\*

INCLUDING SOURCE(S):            YLLWCAB ,

\*\*\* NETWORK ID: GRD2            ;    NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF TOG                    IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS)		175.00	275.00	375.00	X-COORD (METERS)	475.00	575.00
675.00							

766.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
666.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
566.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
466.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
366.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
266.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
166.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
66.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-33.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-133.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-233.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-333.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-433.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-533.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-633.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						



66.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-33.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-133.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-233.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-333.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-433.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-533.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-633.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    02/29/04

\*\*\* TOG Only

\*\*\*                    23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL    DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SRC12

\*\*\*

INCLUDING SOURCE(S):            METRO ,

\*\*\* NETWORK ID: GRD2            ;    NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF TOG            IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS)		175.00	275.00	375.00	X-COORD (METERS)	475.00	575.00
675.00							

-----

766.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
666.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
566.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
466.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
366.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
266.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
166.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
66.90		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-33.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-133.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-233.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-333.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						
-433.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000						

-533.10 | 0.00000 0.00000 0.00000 0.00000 0.00000  
 0.00000  
 -633.10 | 0.00000 0.00000 0.00000 0.00000 0.00000  
 0.00000

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
 \*\*\* 02/29/04

\*\*\* 23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: SRC12  
 INCLUDING SOURCE(S): METRO ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF TOG IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-
55.40	149.30	0.00000	103.80	
291.40	0.00000			
228.80	396.60	0.00000	308.40	
524.50	0.00000			
385.00	655.40	0.00000	-2.40	
204.70	0.00000			

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
 \*\*\* 02/29/04

\*\*\* 23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

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

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF TOG IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS)	X-COORD (METERS)
-725.00	-625.00
-125.00	-525.00
-225.00	-425.00
-125.00	-325.00
-25.00	75.00

766.90   0.00692 0.00723 0.00831 0.01046 0.01267
0.01695 0.02168 0.02059 0.01697
666.90   0.00958 0.00964 0.01023 0.01257 0.01624
0.02196 0.03021 0.02820 0.02308
566.90   0.01387 0.01439 0.01457 0.01591 0.02154
0.02985 0.04546 0.04124 0.03415
466.90   0.01875 0.02191 0.02429 0.02508 0.02903
0.04453 0.07713 0.06700 0.05077
366.90   0.02319 0.02960 0.03848 0.04914 0.05499
0.07435 0.16106 0.13701 0.05809

266.90		0.02697	0.03594	0.05078	0.07804	0.13341
0.22061		0.52297	0.30357	0.14411		
166.90		0.03054	0.04169	0.06109	0.09984	0.19759
0.59237		7.00548	2.99426	0.50113		
66.90		0.02965	0.03949	0.05507	0.08049	0.12972
0.24958		0.88516	0.56913	0.42914		
-33.10		0.02490	0.03063	0.04004	0.05719	0.07847
0.17059		0.30674	0.24836	0.14379		
-133.10		0.02002	0.02552	0.03183	0.03919	0.06278
0.10826		0.15580	0.14581	0.08965		
-233.10		0.01771	0.02034	0.02393	0.03311	0.05540
0.06927		0.09521	0.09451	0.06361		
-333.10		0.01425	0.01635	0.02090	0.03126	0.04312
0.05027		0.06487	0.06598	0.04955		
-433.10		0.01200	0.01461	0.01988	0.02830	0.03258
0.03908		0.04745	0.04876	0.03983		
-533.10		0.01090	0.01388	0.01915	0.02389	0.02561
0.03146		0.03647	0.03763	0.03264		
-633.10		0.01035	0.01361	0.01762	0.01964	0.02111
0.02592		0.02907	0.03003	0.02719		

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*            02/29/04

\*\*\* TOG Only

\*\*\*            23:19:26

\*\*MODELOPTs:

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CONC

URBAN FLAT    FLGPOL    DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ISLAND      \*\*\*

INCLUDING SOURCE(S):            ISLAND ,

\*\*\* NETWORK ID: GRD2            ; NETWORK TYPE:

GRIDCART \*\*\*

\*\* CONC OF TOG            IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (METERS)		175.00	275.00	375.00	X-COORD (METERS)	475.00	575.00
675.00							

766.90		0.01580	0.01292	0.00879	0.00607	0.00475
0.00443						
666.90		0.02043	0.01360	0.00865	0.00657	0.00628
0.00649						
566.90		0.02387	0.01349	0.00987	0.00972	0.00978
0.00912						
466.90		0.02433	0.01696	0.01696	0.01562	0.01351
0.01181						
366.90		0.03780	0.03432	0.02760	0.02300	0.01977
0.01716						
266.90		0.09378	0.06658	0.04869	0.03672	0.02856
0.02284						
166.90		0.20084	0.10908	0.06911	0.04806	0.03556
0.02750						
66.90		0.26524	0.15411	0.09703	0.06564	0.04708
0.03537						
-33.10		0.12878	0.11942	0.09227	0.06893	0.05235
0.04069						
-133.10		0.06574	0.06116	0.06269	0.05689	0.04790
0.03945						
-233.10		0.04887	0.03821	0.03609	0.03775	0.03710
0.03398						

-333.10	0.03693	0.03091	0.02526	0.02405	0.02515
0.02563					
-433.10	0.02988	0.02510	0.02139	0.01808	0.01732
0.01800					
-533.10	0.02539	0.02067	0.01836	0.01575	0.01367
0.01314					
-633.10	0.02200	0.01777	0.01558	0.01404	0.01214
0.01075					

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    02/29/04

\*\*\* TOG Only

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\*\*MODELOPTs:

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CONC                                    URBAN FLAT    FLGPOL    DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ISLAND      \*\*\*

INCLUDING SOURCE(S):            ISLAND ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF TOG                    IN MICROGRAMS/M\*\*3

\*\*

COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-
291.40	55.40	149.30	0.76810	103.80	
	0.09570				
524.50	228.80	396.60	0.02863	308.40	
	0.01261				
204.70	385.00	655.40	0.00835	-2.40	
	0.79316				

1 \*\*\* ISCST3 - VERSION 02035 \*\*\*      \*\*\* Preliminary 5th Street Model  
 \*\*\*                    02/29/04

\*\*\* TOG Only

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\*\*MODELOPTs:

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CONC                                    URBAN FLAT    FLGPOL    DFAULT

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

\*\* CONC OF TOG                    IN MICROGRAMS/M\*\*3

\*\*

NETWORK	GROUP ID	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV,
ZFLAG)	OF TYPE	GRID-ID		
SRC7	1ST HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00)			
	2ND HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00)			
	3RD HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00)			
	4TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00)			



0.00, 5TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 6TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 7TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 8TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 9TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 10TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)

SRC10 1ST HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 2ND HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 3RD HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 4TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 5TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 6TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 7TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 8TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 9TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 10TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)

SRC11 1ST HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 2ND HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 3RD HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 4TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 5TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 6TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 7TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 8TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 9TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)  
0.00, 10TH HIGHEST VALUE IS 0.00000 AT ( 0.00, 0.00,  
0.00, 0.00)

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
\*\*\* 02/29/04

\*\*\* TOG Only

\*\*\* 23:19:26

\*\*MODELOPTs:

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CONC URBAN FLAT FLGPOL DFAULT

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL ( 1

YRS) RESULTS \*\*\*

\*\*

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
SRC12	1ST HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	2ND HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	3RD HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	4TH HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	5TH HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	6TH HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	7TH HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	8TH HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	9TH HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
	10TH HIGHEST VALUE IS		0.00000 AT (	0.00, 0.00,
0.00,	0.00)			
ISLAND	1ST HIGHEST VALUE IS		7.00548 AT (	-125.00, 166.90,
0.00,	2.00) GC GRD2			
	2ND HIGHEST VALUE IS		2.99426 AT (	-25.00, 166.90,
0.00,	2.00) GC GRD2			
	3RD HIGHEST VALUE IS		0.88516 AT (	-125.00, 66.90,
0.00,	2.00) GC GRD2			
	4TH HIGHEST VALUE IS		0.79316 AT (	-2.40, 204.70,
0.00,	2.00) DC NA			
	5TH HIGHEST VALUE IS		0.76810 AT (	55.40, 149.30,
0.00,	2.00) DC NA			
	6TH HIGHEST VALUE IS		0.59237 AT (	-225.00, 166.90,
0.00,	2.00) GC GRD2			
	7TH HIGHEST VALUE IS		0.56913 AT (	-25.00, 66.90,
0.00,	2.00) GC GRD2			
	8TH HIGHEST VALUE IS		0.52297 AT (	-125.00, 266.90,
0.00,	2.00) GC GRD2			
	9TH HIGHEST VALUE IS		0.50113 AT (	75.00, 166.90,
0.00,	2.00) GC GRD2			
	10TH HIGHEST VALUE IS		0.42914 AT (	75.00, 66.90,
0.00,	2.00) GC GRD2			

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

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary 5th Street Model  
 \*\*\* 02/29/04

\*\*\* TOG Only

\*\*\* 23:19:26

\*\*MODELOPTs:

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CONC URBAN FLAT FLGPOL DFAULT

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

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

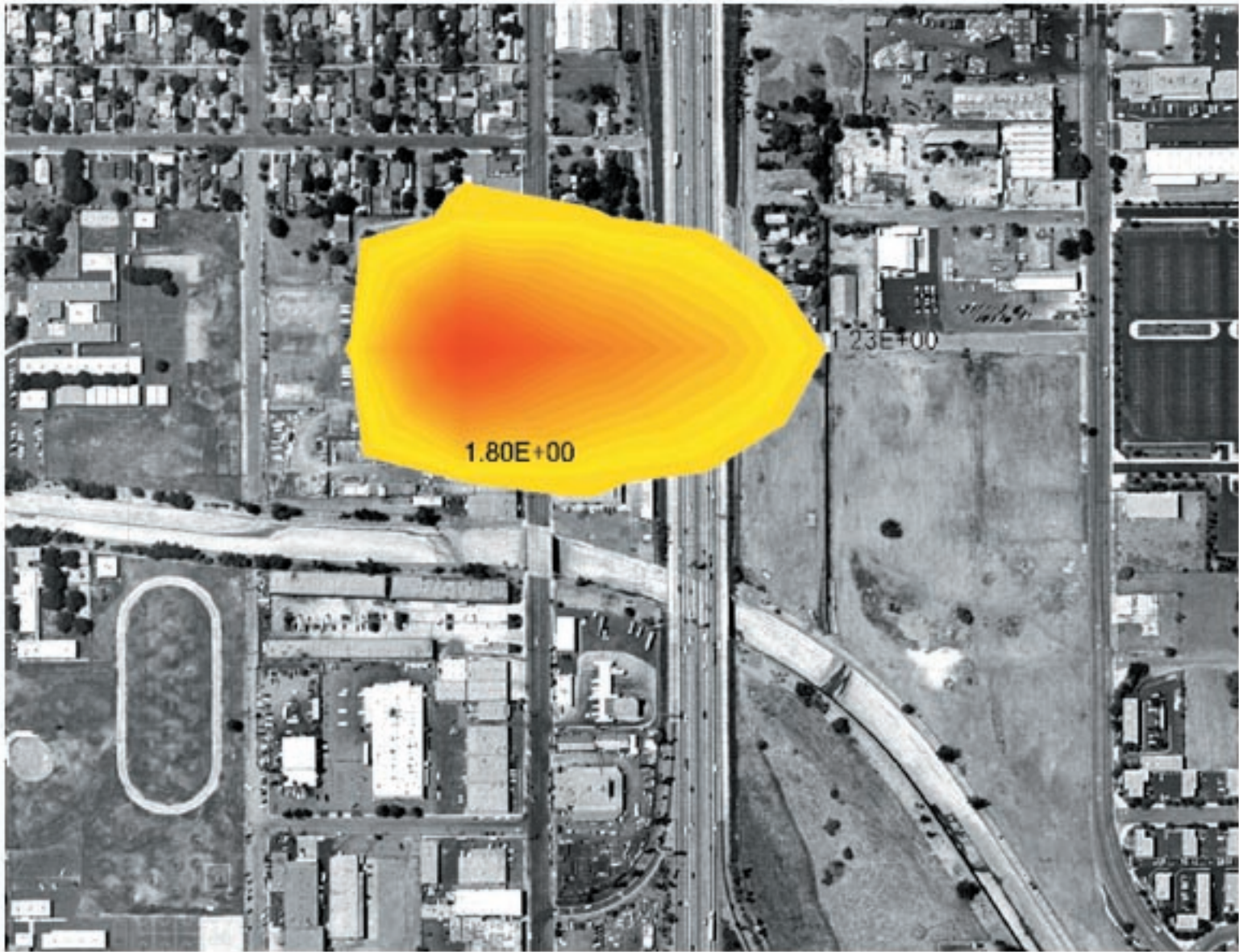
A Total of               0 Fatal Error Message(s)  
A Total of               10 Warning Message(s)  
A Total of               1062 Informational Message(s)  
  
A Total of               1062 Calm Hours Identified

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
SO W320     35 APARM :Input Parameter May Be Out-of-Range for Parameter        QS  
SO W320     36 APARM :Input Parameter May Be Out-of-Range for Parameter        QS  
SO W320     37 APPARM:Input Parameter May Be Out-of-Range for Parameter        QS  
SO W320     40 APPARM:Input Parameter May Be Out-of-Range for Parameter        QS  
RE W216     65 RECAR:FLAG Input Inconsistent With Option: Defaults Used GRD2  
RE W228     66 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228     68 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228     70 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228     72 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART  
RE W228     74 DISCAR:Default(s) Used for Missing Parameters on Keyword DISCCART

\*\*\*\*\*  
\*\*\* ISCST3 Finishes Successfully \*\*\*  
\*\*\*\*\*

# I STREET STATION MODELING RESULTS



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX MAY NOT ENTER INTO A CONTRACT.

Client:

Project/Site:

Title:

Dispersion Model Results for I Street

Date:

Project No.:

Figure No.:

ISCST3 - (DATED 02035)

ISCST3X PC (32 BIT) VERSION 4.0.1  
(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on 2/27/2004 at 15:59:51

\*\* BREEZE ISC GIS Pro v4.0.13 - C:\SWAPE\Projects\Omnitrans\Appendix G\I street  
with cartesian.dat  
\*\* Trinity Consultants

CO STARTING  
CO TITLEONE Preliminary I Street Model  
CO TITLETWO Cartesian Coordinate System  
CO MODELOPT DFAULT CONC URBAN  
CO AVERTIME ANNUAL  
CO POLLUTID OTHER  
CO TERRHGTS FLAT  
CO FLAGPOLE 2  
CO RUNORNOT RUN  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS  
SO LOCATION SRC3 AREA 1844.3 -1238.3 0  
\*\* SRCDESCR Royal Coach  
SO LOCATION SRC2 VOLUME 1875.5 -1298.5 0  
\*\* SRCDESCR Gasoline Island  
SO SRCPARAM SRC3 6.470000E-05 0 75.8 14.3 90 0  
SO SRCPARAM SRC2 1.663508E-02 1 1 1  
SO EMISFACT SRC3 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1  
SO EMISFACT SRC3 HROFDY 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0  
SO EMISFACT SRC3 HROFDY 0.0 0.0 0.0 0.0  
SO SRCGROUP ALL  
SO SRCGROUP GRP2 SRC4  
SO SRCGROUP GRP1 SRC3  
SO FINISHED

RE STARTING  
RE GRIDCART GRD2 STA 0  
\*\* GRDDSCR Cartesian Grid  
RE GRIDCART GRD2 XYINC 1143.5 15 100.0 -2026.1 15 100.0  
RE GRIDCART GRD2 END  
RE FINISHED

ME STARTING  
ME INPUTFIL "C:\SWAPE\PROJECTS\MET DATA\RIVERSD.ASC"  
ME ANEMHGHT 10 METERS  
ME SURFDATA 54139 1981  
ME UAIRDATA 99999 1981  
ME STARTEND 1981 01 01 1 1981 12 31 24  
ME FINISHED

OU STARTING  
OU FINISHED

\*\* PROJECTN 0 104 7 -177 0 0.9996 500000 0  
\*\* IMAGE2 "C:\DOCUMENTS AND SETTINGS\JCLARK\DESKTOP\SB02-576\_606\_BW COPY.TAB"  
\*\* BMP "C:\DOCUMENTS AND SETTINGS\JCLARK\DESKTOP\SB02-576\_606\_BW COPY.JPG" -  
1954.27778533101 -2048.59353366494 0.4623321  
\*\* OUTFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\I street with cartesian.lst"  
\*\* RAWFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\I street with cartesian.RAW"  
\*\* RAWFMT 2  
\*\* HILLBOUN 0 0 0 0  
  
\*\* POLLUTNT IDN 01 OTHER X

\*\* POLLUTNT NAM 01 Other  
\*\* POLLUTNT IDN 02 H2S  
\*\* POLLUTNT NAM 02 Hydrogen Sulfide  
\*\* POLLUTNT IDN 03 MEMERC  
\*\* POLLUTNT NAM 03 Methyl Mercaptan  
\*\* POLLUTNT EMS SRC3 6.470000E-05 0 0  
\*\* POLLUTNT EMS SRC2 1.663508E-02 0 0

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 2 Warning Message(s)  
A Total of 0 Informational Message(s)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
SO W319 37 SRCQA :No Sources Included in Specified Source Group: GRP2  
RE W216 43 RECAR:FLAG Input Inconsistent With Option: Defaults Used GRD2

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary I Street Model  
\*\*\* 02/27/04 \*\*\* Cartesian Coordinate System  
\*\*\* 15:59:51  
\*\*MODELOPTs:  
PAGE 1  
CONC URBAN FLAT FLGPOL DFAULT

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

---  
\*\*Intermediate Terrain Processing is Selected

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

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

\*\*Model Uses Regulatory DEFAULT Options:  
1. Final Plume Rise.  
2. Stack-tip Downwash.  
3. Buoyancy-induced Dispersion.  
4. Use Calms Processing Routine.  
5. Not Use Missing Data Processing Routine.  
6. Default Wind Profile Exponents.  
7. Default Vertical Potential Temperature Gradients.  
8. "Upper Bound" Values for Supersquat Buildings.  
9. No Exponential Decay for URBAN/Non-SO2

\*\*Model Assumes Receptors on FLAT Terrain.  
 \*\*Model Accepts FLAGPOLE Receptor Heights.  
 \*\*Model Calculates ANNUAL Averages Only  
 \*\*This Run Includes: 2 Source(s); 3 Source Group(s); and 225 Receptor(s)  
 \*\*The Model Assumes A Pollutant Type of: OTHER  
 \*\*Model Set To Continue RUNNING After the Setup Testing.  
 \*\*Output Options Selected:  
 Model Outputs Tables of ANNUAL Averages by Receptor  
 \*\*NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours  
 m for Missing Hours  
 b for Both Calm and

Missing Hours

\*\*Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = 0.0000 ;  
 Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ;  
 Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

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

\*\*Input Runstream File: C:\SWAPE\PROJECTS\OMNITRANS\APPENDIX G\I STREET WITH CARTESIAN.DAT

\*\*Output Print File: C:\SWAPE\PROJECTS\OMNITRANS\APPENDIX G\I STREET WITH CARTESIAN.LST

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary I Street Model  
 \*\*\* 02/27/04

\*\*\* Cartesian Coordinate System

\*\*\* 15:59:51

\*\*MODELOPTs:

PAGE 2

CONC URBAN FLAT FLGPOL DFAULT

\*\*\* VOLUME SOURCE DATA \*\*\*

INIT.	EMISSION RATE	NUMBER	EMISSION RATE	BASE	RELEASE	INIT.	
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SCALAR	VARY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID	CATS.	BY	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)

SRC2 0 0.16635E-01 1875.5 -1298.5 0.0 1.00 1.00  
 1.00

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary I Street Model  
 \*\*\* 02/27/04

\*\*\* Cartesian Coordinate System

\*\*\* 15:59:51

\*\*MODELOPTs:

PAGE 3

CONC URBAN FLAT FLGPOL DFAULT





\*\*\* Cartesian Coordinate System

\*\*\* 15:59:51  
 \*\*MODELOPTs:  
 PAGE 6  
 CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE: GRIDCART

\*\*\*

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

1843.5,	1143.5,	1243.5,	1343.5,	1443.5,	1543.5,	1643.5,	1743.5,
	1943.5,	2043.5,					
	2143.5,	2243.5,	2343.5,	2443.5,	2543.5,		

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

	-2026.1,	-1926.1,	-1826.1,	-1726.1,	-1626.1,	-1526.1,	-1426.1,
-1326.1,	-1226.1,	-1126.1,					
	-1026.1,	-926.1,	-826.1,	-726.1,	-626.1,		

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* Preliminary I Street Model  
 \*\*\* 02/27/04

\*\*\* Cartesian Coordinate System

\*\*\* 15:59:51  
 \*\*MODELOPTs:  
 PAGE 7  
 CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE: GRIDCART

\*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)		1143.50	1243.50	1343.50	1443.50	1543.50
1643.50	1743.50	1843.50	1943.50			
-----						
-626.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-726.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-826.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-926.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-1026.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-1126.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-1226.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-1326.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-1426.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-1526.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			
-1626.10		2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00			







81	01	01	16	98.2	3.13	298.7	4	320.0	320.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	17	87.6	1.79	295.4	5	325.6	318.5	0.0000	0.0	0.0000
0				0.00								
81	01	01	18	75.1	1.00	291.5	6	357.2	310.3	0.0000	0.0	0.0000
0				0.00								
81	01	01	19	110.5	1.00	289.8	7	388.8	302.1	0.0000	0.0	0.0000
0				0.00								
81	01	01	20	235.7	1.00	287.0	7	420.4	293.9	0.0000	0.0	0.0000
0				0.00								
81	01	01	21	246.1	1.00	286.5	7	452.0	285.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	22	204.5	1.00	287.0	7	483.5	277.4	0.0000	0.0	0.0000
0				0.00								
81	01	01	23	203.2	0.00	285.9	7	515.1	269.2	0.0000	0.0	0.0000
0				0.00								
81	01	01	24	202.2	0.00	285.4	7	546.7	261.0	0.0000	0.0	0.0000
0				0.00								

\*\*\* NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.  
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.  
1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary I Street Model  
\*\*\* 02/27/04  
\*\*\* Cartesian Coordinate System

\*\*\* 15:59:51

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

VALUES FOR SOURCE GROUP: ALL

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION

\*\*\*

INCLUDING SOURCE(S): SRC3 , SRC2 ,

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)		1143.50	1243.50	1343.50	1443.50	1543.50
1643.50	1743.50	1843.50	1943.50			
-626.10	0.00966	0.00996	0.01086	0.01308	0.01580	
0.01893	0.02458	0.03012	0.02961			
-726.10	0.01278	0.01285	0.01334	0.01509	0.01909	
0.02338	0.03098	0.04005	0.03918			
-826.10	0.01752	0.01794	0.01811	0.01904	0.02287	
0.03018	0.04044	0.05629	0.05460			
-926.10	0.02301	0.02559	0.02724	0.02783	0.02986	
0.03965	0.05576	0.08577	0.08180			
-1026.10	0.02823	0.03376	0.04026	0.04634	0.04922	
0.05499	0.08513	0.14819	0.13719			
-1126.10	0.03254	0.04080	0.05264	0.06984	0.09339	
0.11356	0.14213	0.31994	0.29308			
-1226.10	0.03670	0.04692	0.06259	0.08864	0.13707	
0.24241	0.49230	1.38006	0.68826			
-1326.10	0.04000	0.05181	0.07033	0.10207	0.16393	
0.31201	0.82741	4.88347	5.92175			
-1426.10	0.03860	0.04900	0.06424	0.08713	0.12257	
0.19568	0.34722	1.06516	0.81041			
-1526.10	0.03362	0.04019	0.04919	0.06462	0.08933	
0.12119	0.25887	0.43304	0.39110			



\*\*\* Cartesian Coordinate System

\*\*\* 15:59:51

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
\*\*\*  
VALUES FOR SOURCE GROUP: GRP2

INCLUDING SOURCE(S):

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)		1143.50	1243.50	1343.50	X-COORD (METERS)	
		1843.50	1943.50		1443.50	1543.50
1643.50	1743.50					

-626.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-726.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-826.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-926.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1026.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1126.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1226.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1326.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1426.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1526.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1626.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1726.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1826.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-1926.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000
-2026.10		0.00000	0.00000	0.00000	0.00000	0.00000
0.00000		0.00000	0.00000	0.00000	0.00000	0.00000

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* Preliminary I Street Model  
\*\*\* 02/27/04

\*\*\* Cartesian Coordinate System

\*\*\* 15:59:51

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
\*\*\*  
VALUES FOR SOURCE GROUP: GRP2

INCLUDING SOURCE(S):

\*\*\* NETWORK ID: GRD2 ; NETWORK TYPE:

GRIDCART \*\*\*









0.00,	6TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
	0.00)			
0.00,	7TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
	0.00)			
0.00,	8TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
	0.00)			
0.00,	9TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
	0.00)			
0.00,	10TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
	0.00)			
GRP1	1ST HIGHEST VALUE IS	0.43554 AT (	1843.50,	-1226.10,
0.00,	2.00) GC GRD2			
0.00,	2ND HIGHEST VALUE IS	0.42388 AT (	1843.50,	-1326.10,
	2.00) GC GRD2			
0.00,	3RD HIGHEST VALUE IS	0.37615 AT (	1943.50,	-1326.10,
	2.00) GC GRD2			
0.00,	4TH HIGHEST VALUE IS	0.12822 AT (	1943.50,	-1226.10,
	2.00) GC GRD2			
0.00,	5TH HIGHEST VALUE IS	0.11619 AT (	2043.50,	-1326.10,
	2.00) GC GRD2			
0.00,	6TH HIGHEST VALUE IS	0.05388 AT (	2043.50,	-1426.10,
	2.00) GC GRD2			
0.00,	7TH HIGHEST VALUE IS	0.05025 AT (	2043.50,	-1226.10,
	2.00) GC GRD2			
0.00,	8TH HIGHEST VALUE IS	0.04829 AT (	2143.50,	-1326.10,
	2.00) GC GRD2			
0.00,	9TH HIGHEST VALUE IS	0.04452 AT (	2143.50,	-1426.10,
	2.00) GC GRD2			
0.00,	10TH HIGHEST VALUE IS	0.04061 AT (	1743.50,	-1226.10,
	2.00) GC GRD2			

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

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* Preliminary I Street Model  
 \*\*\* 02/27/04 \*\*\* Cartesian Coordinate System  
 \*\*\* 15:59:51

\*\*MODELOPTs:  
 PAGE 18  
 CONC URBAN FLAT FLGPOL DFAULT

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

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

A Total of 0 Fatal Error Message(s)  
 A Total of 2 Warning Message(s)  
 A Total of 1062 Informational Message(s)  
 A Total of 1062 Calm Hours Identified

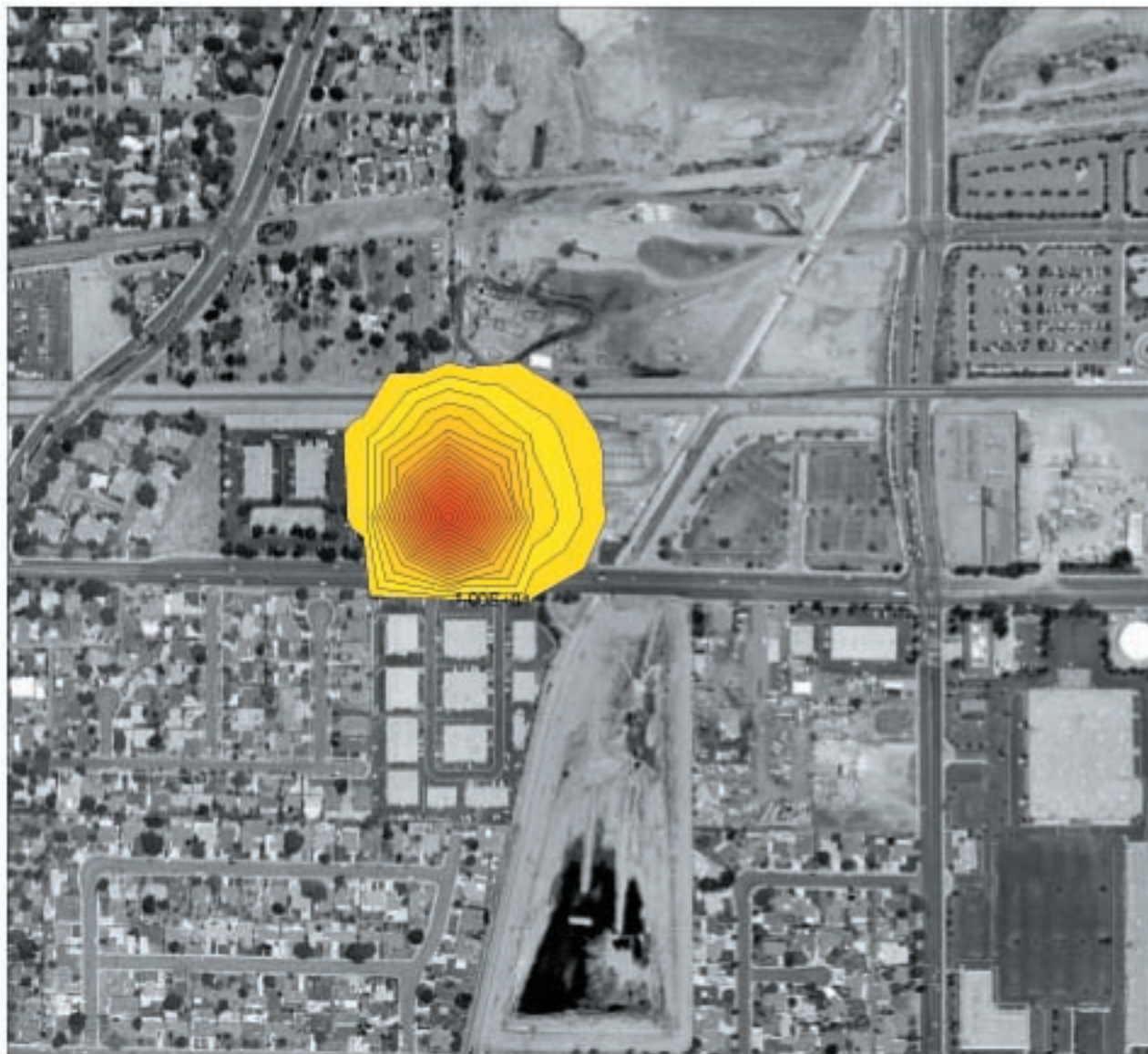
\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
 \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 SO W319 37 SRCQA :No Sources Included in Specified Source Group: GRP2  
 RE W216 43 RECart:FLAG Input Inconsistent With Option: Defaults Used GRD2

\*\*\*\*\*

\*\*\* ISCST3 Finishes Successfully \*\*\*  
\*\*\*\*\*

# **ARROW HIGHWAY STATION MODELING RESULTS**



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX MAY NOT ENTER INTO A CONTRACT.

Client:

Project/Site:

Title:

Dispersion Model Results for Montclair Station

Date:

Project No.:

Figure No.:

1

ISCST3 - (DATED 02035)

ISCST3X PC (32 BIT) VERSION 4.0.1  
(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on 3/01/2004 at 23:55:36

\*\* BREEZE ISC GIS Pro v4.0.13 - C:\SWAPE\Projects\Omnitrans\Appendix  
G\Montclair.dat  
\*\* Trinity Consultants

CO STARTING  
CO TITLEONE West Valley Facility  
CO MODELOPT DEFAULT CONC URBAN  
CO AVERTIME ANNUAL  
CO POLLUTID OTHER  
CO TERRHGTS FLAT  
CO FLAGPOLE  
CO RUNORNOT RUN  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS  
SO LOCATION SRC1 AREA 64.4 88.1 0.9293352  
\*\* SRCDESCR Fueling Station  
SO LOCATION SRC3 AREA -65.5 63.3 0.9293352  
\*\* SRCDESCR Service Bays  
SO SRCPARAM SRC1 0.000000E+00 1 14.9 18.1 90 0  
SO SRCPARAM SRC3 2.442334E-05 0 40.3 46.2 90 0  
SO SRCGROUP ALL  
SO FINISHED

RE STARTING  
RE GRIDCART GRD1 STA 0  
RE GRIDCART GRD1 XYINC -565.0 15 100.0 -978.5 15 100.0  
RE GRIDCART GRD1 END  
RE FINISHED

ME STARTING  
ME INPUTFIL "C:\SWAPE\Projects\Met Data\FONTANA.ASC"  
ME ANEMHGHT 9.14 METERS  
ME SURFDATA 54149 1981  
ME UAIRDATA 99999 1981  
ME STARTEND 1981 01 01 1 1981 12 31 24  
ME FINISHED

OU STARTING  
OU FINISHED

\*\* PROJECTN 0 104 7 -177 0 0.9996 500000 0  
\*\* IMAGE2 "C:\SWAPE\Projects\Omnitrans\Draft Omnitrans Figures\montclair facility  
closeup.tab"

\*\* OUTFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\Montclair.LST"  
\*\* RAWFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\Montclair.RAW"  
\*\* RAWFMT 2  
\*\* PERCENT  
\*\* HILLBOUN 0 0 0 0

\*\* POLLUTNT IDN 01 other X  
\*\* POLLUTNT NAM 01 vocs  
\*\* POLLUTNT EMS SRC1 0  
\*\* POLLUTNT EMS SRC3 2.442334E-05

\*\* BUILDING BLD 0 0 0 10.668 4  
\*\* BUILDING IDN BLD1  
\*\* BUILDING NAM Fueling Station



```
** BUILDING REC 64.4 88.1 15.3 17.7 90.0
** BUILDING BLD 0 0 0 10.668 4
** BUILDING IDN BLD2
** BUILDING NAM Maintenance Bay
** BUILDING REC -65.5 63.3 40.3 46.1 90.0
** BUILDING BLD 0 0 0 6.096 4
** BUILDING IDN BLD3
** BUILDING NAM West Valley Office
** BUILDING REC 1.0 -11.4 14.0 33.9 90.0
** BUILDING BLD 0 0 0 10.668 4
** BUILDING IDN BLD4
** BUILDING NAM Bus Wash
** BUILDING REC 12.6 87.5 16.1 19.6 90.0
```

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

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

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

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
CO W205 18 FLAGDF:No Option Parameter Setting. Forced by Default to ZFLAG=0.  
SO W320 28 APARM :Input Parameter May Be Out-of-Range for Parameter QS  
RE W216 36 RECAR:FLAG Input Inconsistent With Option: Defaults Used GRD1

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

```
1 *** ISCST3 - VERSION 02035 *** *** West Valley Facility
*** 03/01/04 ***
```

\*\*\* 23:55:36

\*\*MODELOPTs:

PAGE 1

CONC URBAN FLAT FLGPOL DFAULT

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

-----  
\*\*Intermediate Terrain Processing is Selected

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

-- SCAVENGING/DEPOSITION LOGIC --

\*\*Model Uses NO DRY DEPLETION. DDPLETE = F

\*\*Model Uses NO WET DEPLETION. WDPLETE = F

\*\*NO WET SCAVENGING Data Provided.

\*\*NO GAS DRY DEPOSITION Data Provided.

\*\*Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

\*\*Model Uses URBAN Dispersion.

\*\*Model Uses Regulatory DEFAULT Options:

1. Final Plume Rise.
2. Stack-tip Downwash.
3. Buoyancy-induced Dispersion.

4. Use Calms Processing Routine.
5. Not Use Missing Data Processing Routine.
6. Default Wind Profile Exponents.
7. Default Vertical Potential Temperature Gradients.
8. "Upper Bound" Values for Supersquat Buildings.
9. No Exponential Decay for URBAN/Non-SO2

\*\*Model Assumes Receptors on FLAT Terrain.

\*\*Model Accepts FLAGPOLE Receptor Heights.

\*\*Model Calculates ANNUAL Averages Only

\*\*This Run Includes: 2 Source(s); 1 Source Group(s); and 225 Receptor(s)

\*\*The Model Assumes A Pollutant Type of: OTHER

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

\*\*Output Options Selected:  
Model Outputs Tables of ANNUAL Averages by Receptor

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

\*\*Misc. Inputs: Anem. Hgt. (m) = 9.14 ; Decay Coef. = 0.0000 ;  
Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

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

\*\*Input Runstream File: C:\SWAPE\PROJECTS\OMNITRANS\APPENDIX G\MONTCLAIR.DAT

\*\*Output Print File: C:\SWAPE\PROJECTS\OMNITRANS\APPENDIX G\MONTCLAIR.LST

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
\*\*\* 03/01/04 \*\*\*

\*\*\* 23:55:36

\*\*MODELOPTS:

PAGE 2

CONC URBAN FLAT FLG POL DFAULT

\*\*\* AREA SOURCE DATA \*\*\*

Y-DIM	ORIENT.	NUMBER	EMISSION RATE	COORD (SW CORNER)		BASE	RELEASE	X-DIM
AREA	OF AREA	SOURCE	INIT. (GRAMS/SEC	X	Y	ELEV.	HEIGHT	OF AREA
(METERS)	(DEG.)	PART. SZ	/METER**2)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		CATS.	SCALAR VARY					OF
		(METERS)	BY					

SRC1	0	0.00000E+00	64.4	88.1	0.9	1.00	14.90
18.10	90.00	0.00					
SRC3	0	0.24423E-04	-65.5	63.3	0.9	0.00	40.30
46.20	90.00	0.00					

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
\*\*\* 03/01/04 \*\*\*

\*\*\*  
 \*\*\* 23:55:36  
 \*\*MODELOPTs:  
 PAGE 3  
 CONC URBAN FLAT FLGPOL DFAULT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID SOURCE IDs

ALL SRC1 , SRC3 ,  
 1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
 \*\*\* 03/01/04  
 \*\*\*

\*\*\* 23:55:36  
 \*\*MODELOPTs:  
 PAGE 4  
 CONC URBAN FLAT FLGPOL DFAULT

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE: GRIDCART

\*\*\*

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

	-565.0,	-465.0,	-365.0,	-265.0,	-165.0,	-65.0,	35.0,
135.0,	235.0,	335.0,					
	435.0,	535.0,	635.0,	735.0,	835.0,		

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

	-978.5,	-878.5,	-778.5,	-678.5,	-578.5,	-478.5,	-378.5,
-278.5,	-178.5,	-78.5,					
	21.5,	121.5,	221.5,	321.5,	421.5,		
1 *** ISCST3 - VERSION 02035 ***							*** West Valley Facility
*** 03/01/04							***

\*\*\* 23:55:36  
 \*\*MODELOPTs:  
 PAGE 5  
 CONC URBAN FLAT FLGPOL DFAULT

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE: GRIDCART

\*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)		-565.00	-465.00	-365.00	-265.00	-165.00
-65.00	35.00	135.00	235.00			
-----						
421.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00
321.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00			

0.00	221.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	121.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	21.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-78.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-178.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-278.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-378.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-478.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-578.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-678.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-778.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-878.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-978.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
 \*\*\* 03/01/04 \*\*\*

\*\*\* 23:55:36

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE: GRIDCART

\*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD (METERS)		335.00	435.00	535.00	635.00	735.00
835.00						
-----						
0.00	421.50		0.00	0.00	0.00	0.00
0.00	321.50		0.00	0.00	0.00	0.00
0.00	221.50		0.00	0.00	0.00	0.00
0.00	121.50		0.00	0.00	0.00	0.00
0.00	21.50		0.00	0.00	0.00	0.00
0.00	-78.50		0.00	0.00	0.00	0.00
0.00	-178.50		0.00	0.00	0.00	0.00
0.00	-278.50		0.00	0.00	0.00	0.00
0.00	-378.50		0.00	0.00	0.00	0.00
0.00	-478.50		0.00	0.00	0.00	0.00





81	01	01	07	207.0	0.00	285.4	6	1.4	170.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	08	202.1	0.00	287.6	5	47.0	192.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	09	231.5	1.00	289.8	4	92.5	213.3	0.0000	0.0	0.0000
0				0.00								
81	01	01	10	9.1	1.00	291.5	3	138.0	234.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	11	359.1	1.34	294.3	2	183.5	256.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	12	350.6	0.00	297.6	2	229.0	277.3	0.0000	0.0	0.0000
0				0.00								
81	01	01	13	19.7	2.24	298.7	3	274.5	298.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	14	56.7	2.68	299.8	3	320.0	320.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	15	89.8	2.68	299.3	3	320.0	320.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	16	98.2	3.13	298.7	4	320.0	320.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	17	87.6	1.79	295.4	5	325.6	318.5	0.0000	0.0	0.0000
0				0.00								
81	01	01	18	75.1	1.00	291.5	6	357.2	310.3	0.0000	0.0	0.0000
0				0.00								
81	01	01	19	110.5	1.00	289.8	7	388.8	302.1	0.0000	0.0	0.0000
0				0.00								
81	01	01	20	235.7	1.00	287.0	7	420.4	293.9	0.0000	0.0	0.0000
0				0.00								
81	01	01	21	246.1	1.00	286.5	7	452.0	285.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	22	204.5	1.00	287.0	7	483.5	277.4	0.0000	0.0	0.0000
0				0.00								
81	01	01	23	203.2	0.00	285.9	7	515.1	269.2	0.0000	0.0	0.0000
0				0.00								
81	01	01	24	202.2	0.00	285.4	7	546.7	261.0	0.0000	0.0	0.0000
0				0.00								

\*\*\* NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.  
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.  
1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
\*\*\* 03/01/04

\*\*\* 23:55:36

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

VALUES FOR SOURCE GROUP: ALL

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
\*\*\*

INCLUDING SOURCE(S): SRC1 , SRC3 ,

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)				X-COORD (METERS)	
-65.00	35.00	-565.00	-465.00	-365.00	-265.00 -165.00
		135.00	235.00		

0.08466	0.10380	0.03773	0.11682	0.03835	0.03862	0.04492	0.04885
---------	---------	---------	---------	---------	---------	---------	---------

321.50		0.04317	0.06051	0.06843	0.07136	0.08238
0.14811		0.18853	0.25767	0.26632		
221.50		0.04806	0.06530	0.10565	0.15716	0.18047
0.32501		0.50556	0.63760	0.57739		
121.50		0.07372	0.10139	0.14781	0.24439	0.62161
1.36082		3.34858	1.84980	0.85807		
21.50		0.08806	0.13144	0.22167	0.46898	1.69453
169.49185		6.66057	1.77386	0.80402		
-78.50		0.11635	0.18182	0.30869	0.75288	3.08204
5.13233		1.14147	0.54185	0.32248		
-178.50		0.12801	0.21151	0.48739	1.00960	1.71227
1.34176		0.47979	0.33447	0.20828		
-278.50		0.17528	0.32884	0.51311	0.72007	0.98732
0.60734		0.31524	0.18083	0.15928		
-378.50		0.23323	0.31672	0.40057	0.54085	0.59301
0.35170		0.22494	0.12201	0.10887		
-478.50		0.21809	0.25980	0.33218	0.40432	0.37643
0.23244		0.16765	0.09714	0.07418		
-578.50		0.18474	0.22458	0.27396	0.30568	0.25400
0.16670		0.12953	0.08196	0.05765		
-678.50		0.16296	0.19622	0.22535	0.23355	0.18131
0.12633		0.10316	0.07082	0.04883		
-778.50		0.14713	0.16963	0.18659	0.18058	0.13570
0.09962		0.08425	0.06191	0.04306		
-878.50		0.13188	0.14654	0.15531	0.14173	0.10555
0.08095		0.07026	0.05451	0.03878		
-978.50		0.11733	0.12719	0.12976	0.11311	0.08469
0.06734		0.05961	0.04828	0.03537		

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
 \*\*\* 03/01/04

\*\*\* 23:55:36

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DEFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
 \*\*\* VALUES FOR SOURCE GROUP: ALL

INCLUDING SOURCE(S): SRC1 , SRC3 ,

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)		335.00	435.00	535.00	X-COORD (METERS)	635.00	735.00
835.00							

421.50		0.14715	0.14689	0.14200	0.12744	0.10963
0.09305						
321.50		0.26106	0.23277	0.18966	0.15111	0.12123
0.09879						
221.50		0.42340	0.29572	0.21315	0.16005	0.12464
0.10005						
121.50		0.48105	0.30885	0.21652	0.16119	0.12530
0.10062						
21.50		0.45959	0.29944	0.21194	0.15880	0.12401
0.09992						
-78.50		0.24948	0.19840	0.15860	0.12840	0.10559
0.08821						
-178.50		0.14177	0.10777	0.09260	0.08251	0.07369
0.06572						



-278.50	0.11221	0.08548	0.06632	0.05501	0.04907
0.04530					
-378.50	0.09409	0.07126	0.05775	0.04729	0.03912
0.03392					
-478.50	0.07371	0.06279	0.04986	0.04188	0.03581
0.03040					
-578.50	0.05387	0.05315	0.04529	0.03716	0.03195
0.02814					
-678.50	0.04135	0.04179	0.04017	0.03446	0.02897
0.02532					
-778.50	0.03438	0.03268	0.03346	0.03150	0.02725
0.02335					
-878.50	0.03015	0.02680	0.02706	0.02738	0.02543
0.02220					
-978.50	0.02722	0.02318	0.02224	0.02294	0.02281
0.02102					

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
 \*\*\* 03/01/04 \*\*\*

\*\*\* 23:55:36  
 \*\*MODELOPTs:

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 CONC URBAN FLAT FLGPOL DFAULT

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

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

NETWORK GROUP ID ZFLAG)	OF TYPE	GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV,
ALL	1ST HIGHEST VALUE IS	169.49185 AT (	-65.00,	21.50,
0.00,	0.00) GC GRD1			
	2ND HIGHEST VALUE IS	6.66057 AT (	35.00,	21.50,
0.00,	0.00) GC GRD1			
	3RD HIGHEST VALUE IS	5.13233 AT (	-65.00,	-78.50,
0.00,	0.00) GC GRD1			
	4TH HIGHEST VALUE IS	3.34858 AT (	35.00,	121.50,
0.00,	0.00) GC GRD1			
	5TH HIGHEST VALUE IS	3.08204 AT (	-165.00,	-78.50,
0.00,	0.00) GC GRD1			
	6TH HIGHEST VALUE IS	1.84980 AT (	135.00,	121.50,
0.00,	0.00) GC GRD1			
	7TH HIGHEST VALUE IS	1.77386 AT (	135.00,	21.50,
0.00,	0.00) GC GRD1			
	8TH HIGHEST VALUE IS	1.71227 AT (	-165.00,	-178.50,
0.00,	0.00) GC GRD1			
	9TH HIGHEST VALUE IS	1.69453 AT (	-165.00,	21.50,
0.00,	0.00) GC GRD1			
	10TH HIGHEST VALUE IS	1.36082 AT (	-65.00,	121.50,
0.00,	0.00) GC GRD1			

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

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
 \*\*\* 03/01/04

\*\*\*

\*\*\* 23:55:36

\*\*MODELOPTs:

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CONC

URBAN FLAT FLGPOL DFAULT

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 3 Warning Message(s)  
A Total of 1579 Informational Message(s)  
A Total of 1579 Calm Hours Identified

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
CO W205 18 FLAGDF:No Option Parameter Setting. Forced by Default to ZFLAG=0.  
SO W320 28 APARM :Input Parameter May Be Out-of-Range for Parameter QS  
RE W216 36 RECAR:FLAG Input Inconsistent With Option: Defaults Used GRD1

\*\*\*\*\*  
\*\*\* ISCST3 Finishes Successfully \*\*\*  
\*\*\*\*\*

# FUEL DISPENSER

1

ISCST3 - (DATED 02035)

ISCST3X PC (32 BIT) VERSION 4.0.1  
(C) COPYRIGHT 1991-2002, Trinity Consultants

Run Began on 3/02/2004 at 0:04:47

\*\* BREEZE ISC GIS Pro v4.0.13 - C:\SWAPE\Projects\Omnitrans\Appendix G\Montclair  
Fuel Island.dat  
\*\* Trinity Consultants

CO STARTING  
CO TITLEONE West Valley Facility  
CO TITLETWO Fuel Island  
CO MODELOPT DFAULT CONC URBAN  
CO AVERTIME ANNUAL  
CO POLLUTID OTHER  
CO TERRHGTS FLAT  
CO FLAGPOLE  
CO RUNORNOT RUN  
CO FINISHED

SO STARTING  
SO ELEVUNIT METERS  
SO LOCATION SRC1 AREA 64.4 88.1 0.9293352  
\*\* SRCDESCR Fueling Station  
SO LOCATION SRC3 AREA -65.5 63.3 0.9293352  
\*\* SRCDESCR Service Bays  
SO SRCPARAM SRC1 0.000000E+00 1 15.24 18.288 90 0  
SO SRCPARAM SRC3 2.442334E-05 0 40.3 46.2 90 0  
SO SRCGROUP ALL  
SO FINISHED

RE STARTING  
RE GRIDCART GRD1 STA 0  
RE GRIDCART GRD1 XYINC -565.0 15 100.0 -978.5 15 100.0  
RE GRIDCART GRD1 END  
RE FINISHED

ME STARTING  
ME INPUTFIL "C:\SWAPE\Projects\Met Data\FONTANA.ASC"  
ME ANEMHGHT 9.14 METERS  
ME SURFDATA 54149 1981  
ME UAIRDATA 99999 1981  
ME STARTEND 1981 01 01 1 1981 12 31 24  
ME FINISHED

OU STARTING  
OU FINISHED

\*\* PROJECTN 0 104 7 -177 0 0.9996 500000 0  
\*\* IMAGE2 "C:\SWAPE\Projects\Omnitrans\Draft Omnitrans Figures\montclair facility  
closeup.tab"  
\*\* OUTFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\Montclair Fuel Island.lst"  
\*\* RAWFILE "C:\SWAPE\Projects\Omnitrans\Appendix G\Montclair Fuel Island.RAW"  
\*\* RAWFMT 2  
\*\* PERCENT  
\*\* HILLBOUN 0 0 0 0

\*\* POLLUTNT IDN 01 other  
\*\* POLLUTNT NAM 01 vocs  
\*\* POLLUTNT IDN 02 TOG X  
\*\* POLLUTNT NAM 02 TOG  
\*\* POLLUTNT EMS SRC1 0 2.138127E-05  
\*\* POLLUTNT EMS SRC3 2.442334E-05 0

```

** BUILDING BLD 0 0 0 10.668 4
** BUILDING IDN BLD1
** BUILDING NAM Fueling Station
** BUILDING REC 64.4 88.1 15.3 17.7 90.0
** BUILDING BLD 0 0 0 10.668 4
** BUILDING IDN BLD2
** BUILDING NAM Maintenance Bay
** BUILDING REC -65.5 63.3 40.3 46.1 90.0
** BUILDING BLD 0 0 0 6.096 4
** BUILDING IDN BLD3
** BUILDING NAM West Valley Office
** BUILDING REC 1.0 -11.4 14.0 33.9 90.0
** BUILDING BLD 0 0 0 10.668 4
** BUILDING IDN BLD4
** BUILDING NAM Bus Wash
** BUILDING REC 12.6 87.5 16.1 19.6 90.0

```

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

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

```

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

```

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 CO W205 19 FLAGDF:No Option Parameter Setting. Forced by Default to ZFLAG=0.  
 SO W320 29 APARM :Input Parameter May Be Out-of-Range for Parameter QS  
 RE W216 37 RECart:FLAG Input Inconsistent With Option: Defaults Used GRD1

\*\*\*\*\*  
 \*\*\* SETUP Finishes Successfully \*\*\*  
 \*\*\*\*\*

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
 \*\*\* 03/02/04

\*\*\* Fuel Island  
 \*\*\* 00:04:47

\*\*MODELOPTs:  
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 CONC URBAN FLAT FLGPOL DFAULT

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

\*\*Intermediate Terrain Processing is Selected

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

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

\*\*Model Uses URBAN Dispersion.

\*\*Model Uses Regulatory DEFAULT Options:



SRC3 0 0.24423E-04 -65.5 63.3 0.9 0.00 40.30

46.20 90.00 0.00

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CONC URBAN FLAT FLGPOL DFAULT

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS \*\*\*

GROUP ID

SOURCE IDs

ALL SRC1 , SRC3 ,

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CONC URBAN FLAT FLGPOL DFAULT

\*\*\* GRIDDED RECEPTOR NETWORK SUMMARY \*\*\*

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE: GRIDCART

\*\*\*

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

135.0, -565.0, -465.0, -365.0, -265.0, -165.0, -65.0, 35.0,  
235.0, 335.0,  
435.0, 535.0, 635.0, 735.0, 835.0,

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

-278.5, -978.5, -878.5, -778.5, -678.5, -578.5, -478.5, -378.5,  
-178.5, -78.5,  
21.5, 121.5, 221.5, 321.5, 421.5,

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CONC URBAN FLAT FLGPOL DFAULT

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE: GRIDCART

\*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD | X-COORD (METERS)  
(METERS) | -565.00 -465.00 -365.00 -265.00 -165.00  
-65.00 35.00 135.00 235.00

-----  
-----

0.00	421.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	321.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	221.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	121.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	21.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-78.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-178.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-278.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-378.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-478.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-578.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-678.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-778.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-878.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-978.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
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 CONC URBAN FLAT FLGPOL DFAULT

\*\*\* Fuel Island

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE: GRIDCART

\*\*\*

\* RECEPTOR FLAGPOLE HEIGHTS IN METERS \*

Y-COORD					X-COORD (METERS)	
(METERS)		335.00	435.00	535.00	635.00	735.00
835.00						

-----

0.00	421.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	321.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	221.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	121.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	21.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-78.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-178.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00
0.00	-278.50		0.00	0.00	0.00	0.00	0.00
0.00	0.00		0.00	0.00	0.00	0.00	0.00







81	01	01	05	174.0	1.00	282.6	7	460.3	170.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	06	207.0	1.00	283.1	7	444.7	170.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	07	207.0	0.00	285.4	6	1.4	170.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	08	202.1	0.00	287.6	5	47.0	192.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	09	231.5	1.00	289.8	4	92.5	213.3	0.0000	0.0	0.0000
0				0.00								
81	01	01	10	9.1	1.00	291.5	3	138.0	234.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	11	359.1	1.34	294.3	2	183.5	256.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	12	350.6	0.00	297.6	2	229.0	277.3	0.0000	0.0	0.0000
0				0.00								
81	01	01	13	19.7	2.24	298.7	3	274.5	298.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	14	56.7	2.68	299.8	3	320.0	320.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	15	89.8	2.68	299.3	3	320.0	320.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	16	98.2	3.13	298.7	4	320.0	320.0	0.0000	0.0	0.0000
0				0.00								
81	01	01	17	87.6	1.79	295.4	5	325.6	318.5	0.0000	0.0	0.0000
0				0.00								
81	01	01	18	75.1	1.00	291.5	6	357.2	310.3	0.0000	0.0	0.0000
0				0.00								
81	01	01	19	110.5	1.00	289.8	7	388.8	302.1	0.0000	0.0	0.0000
0				0.00								
81	01	01	20	235.7	1.00	287.0	7	420.4	293.9	0.0000	0.0	0.0000
0				0.00								
81	01	01	21	246.1	1.00	286.5	7	452.0	285.7	0.0000	0.0	0.0000
0				0.00								
81	01	01	22	204.5	1.00	287.0	7	483.5	277.4	0.0000	0.0	0.0000
0				0.00								
81	01	01	23	203.2	0.00	285.9	7	515.1	269.2	0.0000	0.0	0.0000
0				0.00								
81	01	01	24	202.2	0.00	285.4	7	546.7	261.0	0.0000	0.0	0.0000
0				0.00								

\*\*\* NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.  
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.  
1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
\*\*\* 03/02/04

\*\*\* Fuel Island

\*\*\* 00:04:47

\*\*MODELOPTs:

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CONC URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION  
\*\*\*

VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): SRC1 , SRC3 ,

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)				X-COORD (METERS)
-65.00	35.00	-565.00	-465.00	-265.00
		135.00	235.00	-165.00

421.50		0.03773	0.03835	0.03862	0.04492	0.04885
0.08466		0.10380	0.11682	0.15076		
321.50		0.04317	0.06051	0.06843	0.07136	0.08238
0.14811		0.18853	0.25767	0.26632		
221.50		0.04806	0.06530	0.10565	0.15716	0.18047
0.32501		0.50556	0.63760	0.57739		
121.50		0.07372	0.10139	0.14781	0.24439	0.62161
1.36082		3.34858	1.84980	0.85807		
21.50		0.08806	0.13144	0.22167	0.46898	1.69453
169.49185		6.66057	1.77386	0.80402		
-78.50		0.11635	0.18182	0.30869	0.75288	3.08204
5.13233		1.14147	0.54185	0.32248		
-178.50		0.12801	0.21151	0.48739	1.00960	1.71227
1.34176		0.47979	0.33447	0.20828		
-278.50		0.17528	0.32884	0.51311	0.72007	0.98732
0.60734		0.31524	0.18083	0.15928		
-378.50		0.23323	0.31672	0.40057	0.54085	0.59301
0.35170		0.22494	0.12201	0.10887		
-478.50		0.21809	0.25980	0.33218	0.40432	0.37643
0.23244		0.16765	0.09714	0.07418		
-578.50		0.18474	0.22458	0.27396	0.30568	0.25400
0.16670		0.12953	0.08196	0.05765		
-678.50		0.16296	0.19622	0.22535	0.23355	0.18131
0.12633		0.10316	0.07082	0.04883		
-778.50		0.14713	0.16963	0.18659	0.18058	0.13570
0.09962		0.08425	0.06191	0.04306		
-878.50		0.13188	0.14654	0.15531	0.14173	0.10555
0.08095		0.07026	0.05451	0.03878		
-978.50		0.11733	0.12719	0.12976	0.11311	0.08469
0.06734		0.05961	0.04828	0.03537		

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
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\*\*\* Fuel Island

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URBAN FLAT FLGPOL DFAULT

\*\*\* THE ANNUAL ( 1 YRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

\*\*\*

INCLUDING SOURCE(S): SRC1 , SRC3 ,

\*\*\* NETWORK ID: GRD1 ; NETWORK TYPE:

GRIDCART \*\*\*

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

\*\*

Y-COORD (METERS)					X-COORD (METERS)	
835.00		335.00	435.00	535.00	635.00	735.00

421.50		0.14715	0.14689	0.14200	0.12744	0.10963
0.09305						
321.50		0.26106	0.23277	0.18966	0.15111	0.12123
0.09879						
221.50		0.42340	0.29572	0.21315	0.16005	0.12464
0.10005						
121.50		0.48105	0.30885	0.21652	0.16119	0.12530
0.10062						
21.50		0.45959	0.29944	0.21194	0.15880	0.12401
0.09992						

0.08821	-78.50	0.24948	0.19840	0.15860	0.12840	0.10559
0.06572	-178.50	0.14177	0.10777	0.09260	0.08251	0.07369
0.04530	-278.50	0.11221	0.08548	0.06632	0.05501	0.04907
0.03392	-378.50	0.09409	0.07126	0.05775	0.04729	0.03912
0.03040	-478.50	0.07371	0.06279	0.04986	0.04188	0.03581
0.02814	-578.50	0.05387	0.05315	0.04529	0.03716	0.03195
0.02532	-678.50	0.04135	0.04179	0.04017	0.03446	0.02897
0.02335	-778.50	0.03438	0.03268	0.03346	0.03150	0.02725
0.02220	-878.50	0.03015	0.02680	0.02706	0.02738	0.02543
0.02102	-978.50	0.02722	0.02318	0.02224	0.02294	0.02281

1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
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URBAN FLAT FLGPOL DFAULT

\*\*\* Fuel Island

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL ( 1

YRS) RESULTS \*\*\*

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

\*\*

NETWORK

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

-----

ALL	1ST HIGHEST VALUE IS	169.49185 AT (	-65.00,	21.50,
0.00,	0.00) GC GRD1			
0.00,	2ND HIGHEST VALUE IS	6.66057 AT (	35.00,	21.50,
0.00,	0.00) GC GRD1			
0.00,	3RD HIGHEST VALUE IS	5.13233 AT (	-65.00,	-78.50,
0.00,	0.00) GC GRD1			
0.00,	4TH HIGHEST VALUE IS	3.34858 AT (	35.00,	121.50,
0.00,	0.00) GC GRD1			
0.00,	5TH HIGHEST VALUE IS	3.08204 AT (	-165.00,	-78.50,
0.00,	0.00) GC GRD1			
0.00,	6TH HIGHEST VALUE IS	1.84980 AT (	135.00,	121.50,
0.00,	0.00) GC GRD1			
0.00,	7TH HIGHEST VALUE IS	1.77386 AT (	135.00,	21.50,
0.00,	0.00) GC GRD1			
0.00,	8TH HIGHEST VALUE IS	1.71227 AT (	-165.00,	-178.50,
0.00,	0.00) GC GRD1			
0.00,	9TH HIGHEST VALUE IS	1.69453 AT (	-165.00,	21.50,
0.00,	0.00) GC GRD1			
0.00,	10TH HIGHEST VALUE IS	1.36082 AT (	-65.00,	121.50,
0.00,	0.00) GC GRD1			

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART

DP = DISCPOLR  
BD = BOUNDARY  
1 \*\*\* ISCST3 - VERSION 02035 \*\*\* \*\*\* West Valley Facility  
\*\*\* 03/02/04  
\*\*\* Fuel Island

\*\*\* 00:04:47

\*\*MODELOPTs:

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CONC URBAN FLAT FLGPOL DFAULT

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 3 Warning Message(s)  
A Total of 1579 Informational Message(s)  
A Total of 1579 Calm Hours Identified

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
CO W205 19 FLAGDF:No Option Parameter Setting. Forced by Default to ZFLAG=0.  
SO W320 29 APARM :Input Parameter May Be Out-of-Range for Parameter QS  
RE W216 37 RECART:FLAG Input Inconsistent With Option: Defaults Used GRD1

\*\*\*\*\*  
\*\*\* ISCST3 Finishes Successfully \*\*\*  
\*\*\*\*\*

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