AIR QUALITY IMPACT ANALYSIS REPORT ON THE JINKANPO INCINERATOR CONTRACT NO. N47408-94-M-3032

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1.0 INTRODUCTION

It has been determined that an off-base incinerator may be having a significant impact on air quality at the Naval Air Facility (NAF) in Atsugi, Japan. Therefore, the Naval Facilities Engineering Service Center (NFESC) will be conducting ambient air quality monitoring at the NAF. The monitoring effort will be directed at quantifying the ambient air toxic pollutant concentrations.

The purpose of this air quality impact analysis report is to provide an assessment of potential impacts resulting from activities at Jinkanpo Incinerator Complex on the NAF Atsugi facility. Activities at the Jinkanpo facility include the incineration of municipal solid waste and the storage of various waste materials onsite prior to incineration. These activities can release airborne toxics which could impact the NAF at levels in excess of acceptable standards.

The impact analysis requires technical information on the incinerator operations, area diffusion climatology and source/receptor relationships. Only limited data is available on the incinerator operations and source characteristics. The data that is available was supplied and has been used to develop an approximation of how the incinerator complex is operating. The area diffusion climatology has been defined by evaluating meteorological records for 1991 at the NAF, Atsugi. The source/receptor relationships were developed from a series of topographic maps and photographs of the area surrounding the incinerator and maps of the NAF, Atsugi.

The impact analysis also requires the use of a refined atmospheric dispersion model. In this case, the Industrial Source Complex Model, ISCST2, was applied. The ISCST2 code is the most up-to-date model currently approved by the United States Environmental Protection Agency (USEPA) for simulating complex industrial sources such as the Jinkanpo incinerator complex. The model is used to predict the expected ambient air impact levels at selected receptors for both short-term (one hour) and long-term (annual) averaging periods. The final objective is to predict where the maximum impacts are occurring and the approximate concentrations expected so that the NFESC monitoring activities can be conducted at these locations and with some knowledge of expected concentrations for specific meteorological conditions.

2.0 ANALYTICAL APPROACH

The analytical approach was divided into two principal tasks. The first task dealt with the acquisition of data on the Jinkanpo incinerator complex and its operations. The second task involved the development of the modeling approach including the acquisition of model input data and model configuration to most effectively simulate the operations at the incinerator complex. With the above data, an atmospheric diffusion model can be used to calculate expected concentration impacts on the area surrounding the incinerator.

2.1 Incinerator Design and Operations

There was little data supplied directly by NFESC on the design and operations of the incinerator complex. In fact, the incinerator is not directly referenced in various USEPA studies on Japanese incinerators. Therefore, data had to be developed and several assumptions have been used in composing a complete design and operations data base for the Jinkanpo incinerator complex. This data should be reviewed and if possible verified to support the analyses that follow.

Based on photographic evidence, a brief statement on facility operations and assistance from combustion experts, the following data base was developed. The assumed source characteristics are provided in Table 2.1. These data were used in the modeling of dispersion rates, and therefore, determine the location of maximum impact points under various meteorological conditions.

Table 2.2 provides rough potential release rates of various compounds based on using a wet scrubber/cyclone as the primary emission control methodology. No engineering data was available on the types of combustion systems or the types of control systems that are utilized at the Jinkanpo facility. Therefore, the values presented herein are strictly for approximating the potential impact concentrations under various meteorological conditions at specified receptor points.

A large unknown is the amount of fugitive emissions that are released by the storage, handling and disposal of liquid and solid waste materials onsite. Therefore, the area source emission rates cannot be estimated at this point and a survey of specific or total hydrocarbons should be performed before setting

sample volumes and sampling media for monitoring toxic organics that may be emitted from these onsite activities.

2.2 Modeling Approach

The ISCST2 Model has been applied in approximating the relative dispersion rates associated with the various sources at the Jinkanpo incinerator complex. The input data required by the model for facility operations are presented in Section 2.1. The model also requires meteorological data and topographic data. These data and the running of the model are briefly described below. In addition, a brief description of the various options used in the modeling is also discussed.

The meteorological data utilized in the modeling analysis serve two purposes. The first set of data is commonly known as the PTPLU model data set and is comprised of different wind speed and atmospheric stability conditions. These conditions are input into the model for estimating worst case one-hour impact points for a set of receptors for a single downwind direction. In this case, five different receptor elevation sets were chosen to simulate facility impacts. The terrain for a single direction (due North) from the facility was input along with terrain elevations set uniformerly at 150 feet and 185 feet. The remaining two receptor elevations were set as flagpole receptors of 50 and 100 feet above stack top or the 185 foot elevation. These conditions allow for the simulation of dispersion rates for one-hour averaging periods at various distances downwind of the incinerator complex. Distances out to 1000 meters were simulated. The receptor spacing was set at 100 meters.

The second set of meteorological data is used to simulate annual dispersion rates. Meteorological data from the NAF, Atsugi was translated by NFESC into an ISCST2 compatible format. The data was used along with the incinerator source characteristics to provide annual dilution rates. The annual model results are also for a receptor grid spacing of 100 meters. The annual grid is centered on the incinerator complex and extends from -1000 meters to +1000 meters in the east-west direction and from -600 meters to +1900 meters in the north-south direction. The terrain elevations at these points were taken from several topographic maps of the NAF Atsugi and surrounding topography. An expanded receptor grid can be developed if additional topographic maps are supplied. However, based on the modeling results, the maximum impact points occur within the extent of the receptor grid that is used in this analysis.

The modeling of the incinerator facility was complicated by several factors that were evaluated in developing expected dilution rates. The elevation of the source heights for the three primary onsite point sources was estimated from facility photographs. The estimated heights suggest that the stack tops at a maximum are only 60 feet above local complex grade (125 feet). Measured structure heights adjoining the three stacks, therefore, had to be included to simulate the potential for building downwash. The building downwash terms for each source are provided on Table 2.1.

A second concern was the volumetric flow rates per point source. The rates are estimated based on the Kanagawa prefectural government data for stack tests they conducted at the incinerator complex. A potential exists for the volumetric exhaust rates to be substantially higher based on plume rise observations. Therefore, a factor of three times the tested rate was used to provide a comparison for determining where ambient monitoring equipment should be placed. Source exit velocity has a significant effect on the position of the maximum impact point.

3.0 DISCUSSION OF RESULTS

The primary purpose in this analysis was directed at determining the relative impact of the Jinkanpo incinerator operations at various locations for various meteorological conditions. The engineering data base for incinerator operations was provided in Section 2.1 and the modeling approach was discussed in Section 2.2. Based on these data and the ISCST2 Model, a series of modeling analyses were prepared to provide appropriate locations for sampling incinerator complex impacts.

The first portion of the analysis was directed at the point sources from three onsite incinerators. Based on plant photographs, there appears to be a fourth stack that occasionally operates. However, this fourth stack appears to be an emergency relief point or dump stack for incinerator No. 1. A rough drawing of the incinerator complex is provided in Figure 3.1 that identifies the various source locations that were modeled.

Table 3.1 provides the effective dilution rates for all incinerator point sources combined into a single analysis. The tabulated values include the following:

- All three incinerators operating as specified in Table 2.1.
- The release rates from each point source is 1.0 grams per second.
- The analysis is for the 150 foot terrain elevation case.
- Downwind distances represent the distance downwind of incinerator stack No. 1.
- Stability class and wind speed categories provide average conditions for locating maximum impact points for one-hour averaging periods.

The actual model runs for Table 3.1 are provided in Appendix B.

There are four case studies presented in Table 3.1. Case 1 is based on the exit velocity as provided by the Kanagawa prefectual government permit memorandum dated August 19, 1992. All stability classes and several wind speed classes are presented to provide a means of estimating dilution rates based on the forecast of meteorological conditions for the time of a test. The following example will allow easy use of this table.

First, assume that all incinerators are operating as described above under a neutral or D stability class and a 2 meter per second wind speed. The expected normalized impact concentration from all three point sources combined is 277 micrograms per cubic meter. Using the data from the incinerator test as provided in Table 2.2, it can be shown that the emission rate for hydrochloric acid for all three units operating is as follows:

$$129 \text{ mg/m}^3 \times 9.3 \text{ m}^3\text{/sec} \times .001 \text{ gm/mg} = 1.2 \text{ grams per second}$$

Therefore, the hydrochloric acid concentration impact for this case would be:

$$277 \text{ ug/m}^3 \text{ (normalized)} \times 1.2 \text{ gm/sec (hydrochloric acid)} = 332 \text{ ug/m}^3 \text{ (hydrochloric acid)}$$

at the 100 meter receptor under D stability at a 2 meters per second wind speed.

If, however, only two incinerators were operating under the above scenario, then the calculation would be as follows: The hydrochloric acid emission rate would be:

$$129 \text{ mg/m}^3 \times 6.2 \text{ m}^3\text{/sec} \times .001 \text{ gm/mg} = 0.8 \text{ grams per second}$$

The estimated hydrochloric acid impact would be:

$$277 \text{ ug/m}^3 \text{ (normalized)} \times 0.8 \text{ gm/sec} = 222 \text{ ug/m}^3$$

at the 100 meter receptor under D stability at a 2 meter per second wind speed.

The above methods can, therefore, be used to estimate the concentration of any stack exhaust contaminant at specific distances downwind of the facility.

Table 3.1 values are for a base elevation of 150 feet. In general, if the sampling point elevation is above the 150 foot contour, the concentrations are likely to increase proportionately. The computer model runs in Appendix B actually provide normalized concentrations (1 gram per second emission rate values) for the 185 foot elevation and for higher elevations. The sampling sites because of the topography and access afforded by the base property will all probably be in the 150 foot to 185 foot elevation range.

As shown in Table 3.1, for most cases the closer the receptor is to the incinerator complex, the higher the concentrations. Figure 3.2 provides a map of the area surrounding the incinerator complex. In conjunction with the Figure 3.2, the enclosed acetate overlay containing a 100 meter radius and 10° sector line grid, it is possible to locate where the individual impact points are occurring on base property. From a monitoring perspective, the maximum on-base one-hour impact point would occur at between 100 and 200 meters downwind under D stability at a wind speed of 5 meters per second. This concentration of 343 ug/m^3 is normalized for a per stack emission rate of one gram per second. Concentrations also decrease as distance from the incinerator increases.

The other three cases presented in Table 3.1 are provided to illustrate the differences in impacts that can occur when changing the influence of exit velocity and building downwash. In Case 2, the exit velocity has been increased to three times that quoted in the Kanagawa test data. Concentrations for the lower wind speed cases are dramatically lower since the plumes are being pushed upward by the increased stack momentum. Appendix B contains the model runs for additional receptor elevations where this is evidenced.

Case 3 illustrates what happens when the building wake terms are removed and Case 4 provides an increased stack exit velocity in combination with no building wakes. Both of these cases show that the buildings on the Jinkanpo site may have a significant impact on how the stack plumes disperse and where the maximum impact points are located. The influence of onsite structures needs to be investigated as part of the monitoring effort.

Table 3.2 provides the normalized impact concentrations for the various area sources located at the Jinkanpo site. This analysis is identified as Case 4 and provides normalized impacts from the area sources for a series of stability and wind speed classes. Area sources do not have an exit velocity nor can one simulate the impact of structure downwash.

The results presented in Table 3.2 indicate that the area sources at the incinerator complex can have a very significant impact on ambient concentrations. These impacts could be significantly higher than those associated with the stack emissions for several reasons. First, the volatization of organics by evaporation when the drums are broken can be very significant. The release rate could be in the order of a fraction of a percent of the mass in a drum. At this level, the gram per second release rate for organics could be much higher than that being released from the incinerator. Second, the concentration impacts from a surface release are always higher than those from an elevated release at the same release rate. Third, the combustion of organic solvents will destroy a majority of the solvent. The actual destruction and reduction efficiency (DRE) of the combustion units are critical in determining the point source emission rates.

As a final step, a series of long-term runs was performed to evaluate the impact of the incinerator complex on the surrounding area. These model runs are presented in Appendix B as Cases 5, 6 and 7. Case 5 identifies the annual normalized concentration impacts for the point sources only. This set is identical to Case 1 except that a full year of meteorology has been used as compared to the screening set of PTPLU conditions. The data indicates that the maximum annual average impact point would occur to the northeast, on the base property. The area source impacts are identified in Case 6 and the maximum impact points occur at the NAF, Atsugi property boundary with the incinerator complex. Case 7 provides the impacts for both point and area sources combined and the highest impacts are again at the property boundary.

4.0 CONCLUSIONS AND RECOMMENDATIONS

A series of refined modeling analyses of the Jinkanpo incinerator complex was performed to identify the maximum impact points for conducting ambient air monitoring at the NAF Atsugi. The analysis shows that the maximum impact point for point sources will vary depending on atmospheric stability and the

mean wind speed and direction. The impact analysis of area sources at the Jinkanpo incinerator complex indicates that the area sources could have a significant impact depending on their emission rates.

The analyses primarily discuss impacts in terms of normalized values. This allows for easy conversion of impacts for differing source conditions which is especially useful in this case. For example, if the incinerators operate with the normally functioning scrubber, certain pollutant emission rates can be reduced by 90 percent or more. A malfunctioning control system or one that is not operating will cause a dramatic increase in emissions and a corresponding increase in impact concentrations at ground level. Therefore, a key element of the monitoring program must include close observation of all activities associated with the incinerator complex during all ambient air tests.

The analysis provides a means of isolating where the most appropriate downwind monitoring sites should be positioned for specific meteorological conditions. The analysis also suggests that because of the potentially large impact of fugitive emissions, the area source terms need to be investigated in greater detail. Therefore, a screening survey using a total hydrocarbon analyzer should be used to provide the approximate level of impacts from the area sources. Monitoring should occur at several locations downwind and at least one location upwind of the incinerator complex.

Monitoring of point source emissions will depend on the number of incinerators in operation, the status of individual unit control systems and local meteorology. Again, both upwind and downwind monitoring should be designed to include monitoring of target compounds at several distances from the incinerator complex to assure that the models being applied to simulate impacts can be properly calibrated.

In summary, it appears that the short section of Towers Avenue as it crosses the Tade River would be ideal to monitor most of the impacts for both area and point sources. A second downwind site should be chosen based on the local meteorology patterns to intercept the incinerator complex plumes downwind at about 600-700 meters. These two locations for southerly component winds would be the best for quantifying the potential maximum points as well as defining the dispersion rates for model verification.

TABLE 2.1

ESTIMATED JINKANPO INCINERATOR DESIGN AND OPERATING CHARACTERISTICS

Parameter	Specification			
Number of Point Sources	3			
Number of Area Sources	4			
UTM Coordinates of Facility Grid Centroid	N: 3,922,780	E: 358,980		
Point Source Grid Location	No. 1	x = -18	y = 66	z = 38.1
	No. 2	x = 3	y = 81	z = 38.1
	No. 3	x = -8	y = 57	z = 38.1
Area Source Grid Location	No. 1	x = 30	y = -20	z = 38.1

Building characteristics for downwash calculations:

Point Source No. 1: Building Height = 13.7m Building Width = 15.0 m
Point Source No. 2: Building Height = 9.1 m Building Width = 23.0 m
Point Source No. 3: Building Height = 9.1 m Building Width = 23.0 m

Source Modeling Parameters

Point Source No.	Base Elevation (m)	Stack Height (m)	Stack Diameter (m)	Stack Exit Temperature (K)	Stack Exit Velocity (m/sec)	Stack Exit Volume (m3/sec)
1	38.1	18.3	1.2	477	2.74	3.1
2	38.1	18.3	1.0	477	3.96	3.1
3	38.1	13.7	0.75	477	5.28	3.1
Area Source						
1	38.1	--	--	293	--	--

TABLE 2.2

INCINERATOR EMISSION FACTORS COMPARISON

Compound	Emission Rates (mg/m3)*		
	Uncontrolled	Wet Scrubber Controlled (90%)	Jinkanpo Stack Test Data
Sulfur dioxide**	471.	471.	--
Nitrogen oxides**	660.	660.	
Carbon monoxide**	458.	458.	--
Non-methane hydrocarbons**	3.9	3.9	--
Hydrochloric acid	969.	96.9	129
Sulfuric acid	0.82	0.082	--
Ammonia	0.69	0.069	--
Total Suspended Particulates	4,600.	460.	300
Arsenic	0.219	0.0219	--
Cadmium	1.89	0.189	0.08
Chromium	1.52	0.152	--
Lead	32.8	3.28	3.78
Mercury**	0.510	0.510	--
Nickel	1.220	0.122	--
PCDD/PCDF	0.004	0.0004	--
Fluorides	7.77	0.777	1.9

Notes:

* See attached Tables in Appendix A for source information.

** No control is assumed for these compounds although some capture may ocuur.

TABLE 3.1

NORMALIZED CONCENTRATION IMPACTS FOR PLANT POINT SOURCES UNDER VARIOUS METEOROLOGY CONFIGURATIONS

FLAT PLATE ANALYSIS FOR 150 FOOT SURFACE ELEVATION

PLANT CONFIGURATION	Stability Class & Wind Speed	Downwind Distance in Meters									
		100	200	300	400	500	600	700	800	900	1000
Case 1: Exit velocity based on permit memo Building Wake Simulated	A/2	202	173	103	56	28	17	11	8	6	4
	B/2	159	217	168	120	86	64	49	38	31	25
	C/2	193	264	241	196	156	125	102	84	71	60
	C/5	410	248	161	111	80	60	47	38	31	26
	D/2	277	299	286	260	231	203	179	158	142	128
	D/5	554	343	253	194	153	124	102	85	76	66
	D/10	340	204	146	109	84	67	54	46	40	35
	E/2	446	119	130	135	136	134	123	119	114	109
	F/2	807	312	260	232	214	200	189	179	171	163
Case 2: Exit velocity three times permit memo Building Wake Simulated	D/2	1	2	4	8	14	20	26	31	35	37
	D/5	352	156	131	116	101	88	76	67	60	54
	D/10	293	162	119	92	73	60	50	42	37	33
	F/2	13	3	6	10	14	17	22	26	30	34
Case 3: Exit velocity based on permit memo No Building Wake	D/2	4	33	81	116	135	141	138	131	122	113
	F/2	1	1	4	8	14	23	33	41	48	55
Case 4: Exit velocity three times permit memo No Building Wake	D/5	1	17	41	56	63	63	61	57	52	48
	D/10	8	58	79	78	69	59	51	43	37	32

Notes:

Normalized concentrations are in micrograms per cubic meter.

TABLE 3.2

NORMALIZED CONCENTRATION IMPACTS FOR PLANT AREA SOURCES UNDER VARIOUS METEOROLOGY CONFIGURATIONS

FLAT PLATE ANALYSIS FOR 150 FOOT SURFACE ELEVATION

PLANT CONFIGURATION	Stability Class & Wind Speed	Downwind Distance in Meters									
		100	200	300	400	500	600	700	800	900	1000
Case 4: Area source term only	A/2	271	98	48	26	14	8	5	3	2	2
	B/2	389	151	89	57	38	27	20	15	12	10
	C/2	626	232	147	104	77	58	46	37	30	25
	D/2	1071	413	262	197	157	129	107	89	76	65
	D/5	428	165	105	79	63	51	43	36	30	26
	D/10	214	83	52	39	31	26	21	18	15	13
	E/2	1410	597	381	289	236	199	171	149	130	115
	F/2	1968	988	634	472	380	320	278	248	225	205

Notes:

Normalized concentrations are in micrograms per cubic meter.

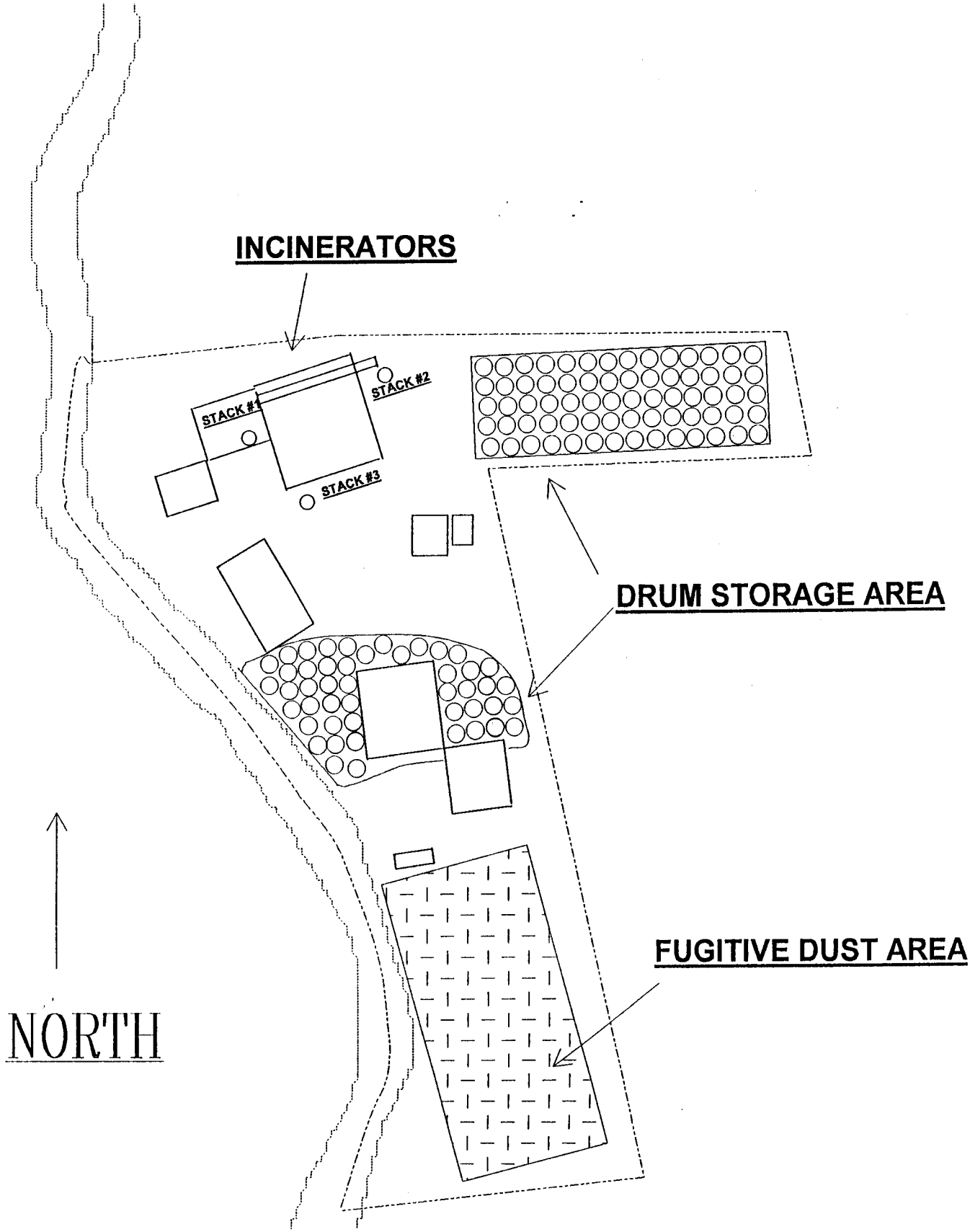

FIGURE 3.1: JINKANPO INCINERATOR COMPLEX

100 m
200 m
300 m
400 m
500 m
600 m
700 m

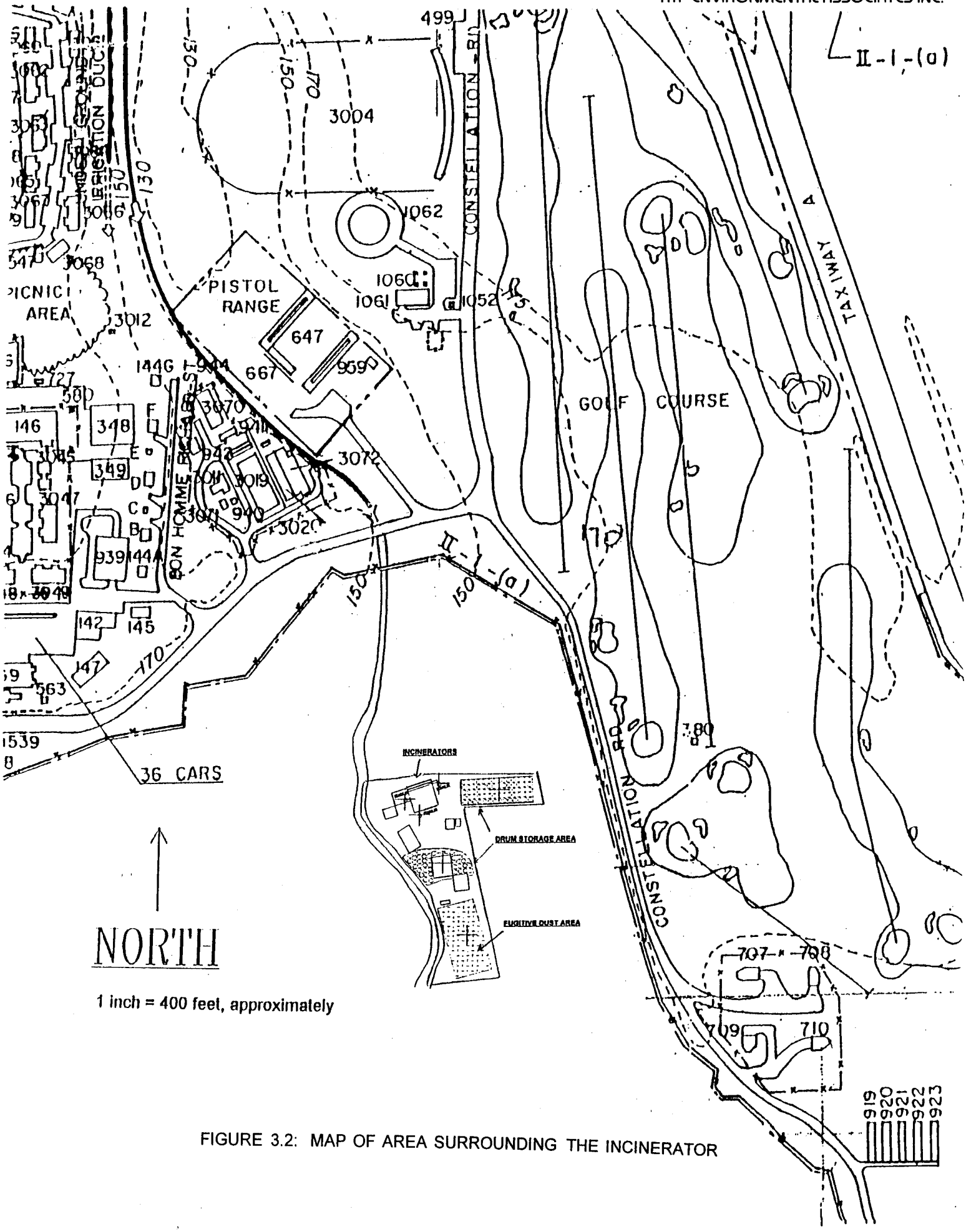

FIGURE 3.2: MAP OF AREA SURROUNDING THE INCINERATOR

APPENDIX A

BACKGROUND INFORMATION ON INCINERATOR EMISSION FACTORS

RECEIVED
OCT 19 1989
EPA AIR DOCKET

A-89-08
II-F-1

United States
Environmental Protection
Agency

Office of Air Quality
Planning and Standards
Research Triangle Park NC 27711

EPA-450/3-89-27c
August 1989

Air

EPA

Municipal Waste Combustors-Background Information for Proposed Standards: Post-Combustion Technology Performance

NSPS

TABLE 1-1. SUMMARY OF UNCONTROLLED PARTICULATE MATTER CONCENTRATIONS[1]

Combustor Type	Concentration (gr/dscf at 7% O_2)
Mass burn refractory wall	3
Mass burn waterwall; Mass burn rotary waterwall; Modular excess air	2
Refuse-derived fuel fired	4
Modular starved air	0.15

2 gr/dscf. At refuse derived fuel (RDF) combustors, typical uncontrolled PM concentrations are 4 gr/dscf and at modular starved air combustors, typical uncontrolled PM concentrations are 0.15 gr/dscf. Particulate data presented in this document are generally normalized to 12 percent carbon dioxide (CO_2), which results in values approximately six percent lower than when normalized to 7 percent O_2.

1.2.2 Metals

Emissions of metals in flue gas from MWC's potentially have adverse health effects. Certain metals considered to have the greatest effect-- arsenic (As), cadmium (Cd), chromium (Cr), lead (Pb), mercury (Hg), and nickel (Ni) -- have been measured in flue gas emissions from a number of MWC's. Uncontrolled metal concentrations measured at individual MWC's are summarized in Table 1-2 along with average concentrations for each combustor type. All concentrations are presented in micrograms per dry, standard cubic meter (ug/dscm) normalized to 7 percent O_2.

Based on the available data, the highest uncontrolled arsenic levels are from RDF combustors which average 615 ug/dscm and range from 203 to 1,060 ug/dscm. The data on mass-burn combustors average 216 ug/dscm and range from

TABLE 1-2. SUMMARY OF UNCONTROLLED METALS CONCENTRATIONS

Site	Concentration (ug/dscm at 7% O_2)						Reference
	As	Cd	Cr	Pb	Hg	Ni	
Mass Burn							
Baltimore RESCO	226	NM[a]	2,960	NM	NM	NM	2
Commerce (1987)[b]	220	2,700	730	50,000	450	680	3
Commerce (1988)[b]	74	1,600	3,450	17,200	450	4,000	4
Dayton	234	1,550	185	38,400	1,030	94	5
Gallatin	422	3,130	1,040	36,300	248	NM	6
Marion County	NM	1,120	422	20,500	NM	12	7
Quebec City (pilot)	128	1,220	1,870	34,700	373	1,300	8
Average	216	1,890	1,520	32,800	510	1,220	
Modular							
Cattaraugus County	34	1,090	1,210	20,400	1,130	1,260	9
Prince Edward Island	14	1,120	71	18,400	921	553	10
Tuscaloosa	99	NM	34	NM	NM	NM	11
Average	49	1,110	436	19,400	1,020	905	
RDF							
Biddeford	583	1,280	3,170	31,300	440	NM	12
Mid-Connecticut	1,060	1,070	927	37,400	1,010	541	13
NSP Red Wing	203	805	381	24,300	140	344	14
Average	615	1,050	1,490	31,000	530	443	

[a]NM = Not measured.

[b]Tests conducted firing a mixture of residential and commercial refuse. Tests firing only commercial refuse yielded similar emissions, but are not reported here.

nickel are associated with particulate and are consistently removed to relatively low levels across a particulate control device. Thus, the estimated removal efficiency is probably a reasonable approximation of the actual removal efficiency. For mercury, however, with the relatively wide variation in uncontrolled mercury concentrations and the general understanding that mercury is not associated with particulate, a realistic mercury removal efficiency cannot be estimated with the available data unless the outlet mercury concentration is substantially lower than the lowest reported uncontrolled mercury concentration. Thus, outlet mercury emissions data in this document are only compared to the range in uncontrolled mercury concentrations in Table 1-2 to indicate whether mercury removal may have occurred.

1.2.3 CDD/CDF

Uncontrolled CDD/CDF emission levels are summarized in "Muncipal Waste Combustion Assessment: Combustion Control at Existing Facilities" and are presented in Table 1-3. All concentrations reflect the sum of the tetra- through octa-chlorinated CDD/CDF homologues and are presented in nanograms per dry, standard cubic meter (ng/dscm) normalized to 7 percent O_2. From mass burn refractory combustors, typical uncontrolled CDD/CDF concentrations

TABLE 1-3. SUMMARY OF UNCONTROLLED CDD/CDF CONCENTRATIONS[15]

Combustor Type	Concentration (ng/dscm at 7% O_2)
Mass burn refractory	4,000
Mass burn waterwall - large	500
Mass burn waterwall - midsize; Modular excess air	200
Mass burn waterwall - small; Refuse-derived fuel fired; Mass burn rotary waterwall	2,000
Modular starved air	400

TABLE 1-4. SUMMARY OF UNCONTROLLED ACID GAS (SO_2 AND HCl) CONCENTRATIONS

Site	(ppm, dry at 7% O_2) SO_2	HCl	References
Mass Burn			
Claremont	NM[a]	450	16
Commerce (1987)	270	900	17
Commerce (1988)	110	650	18
Long Beach	140	NM	19
Marion County (1986)	180	570	20
Marion County (1987)	330	680	21
Millbury (Unit 1)	210	770	22
Millbury (Unit 2)	300	730	23
Munich	92	630	24
Portland	300	NM	25
Quebec City	130	450	26
Stanislans County (Unit 1)	67	NM	27
Stanislans County (Unit 2)	59	NM	28
Average	180	650	
Modular			
Cattaraugus	150	190	29
Prince Edward Island	66	490	30
St. Croix	120	570	31
Average	110	420	
RDF			
Biddeford	100	580	32

[a]NM = Not measured.

ATTACHMENT A

LIST OF POLLUTANTS COMMON TO MUNICIPAL SOLID WASTE COMBUSTION UNITS IN THE U.S.A.

EMISSIONS (LB/HR/BOILER) FOR FACILITY

			OPERATING CONDITIONS (% LOAD and BTU/lb HHV)								
			80% LOAD			84%	100% LOAD			110% LOAD	
Pollutant/Avg. Time		Basis[a]	4000	5500	6250	4000	4783	5500	6500	5500	6500
SO_2	3 hr	100	58.23	59.29	59.67	60.90	73.76	74.26	74.75	81.59	82.22
	24 hr, Annual	30	17.47	17.82	17.90	18.27	22.13	22.28	22.43	24.51	24.67
NO_x	1 hr	350 ←	146.48	149.41	150.11	153.20	185.56	186.80	188.05	205.51	206.83
	Annual	180	75.33	76.34	77.20	78.79	95.43	96.07	96.71	105.69	106.37
CO	1 hr	400 ←	101.30	103.94	104.43	106.57	129.08	129.95	130.82	142.96	143.89
	8 hr	50	12.74	12.99	13.05	13.32	16.14	16.24	16.35	17.87	17.99
NMHC (as CH4)	1 hr	100 ←	14.56	14.85	14.92	15.22	18.44	18.56	18.69	20.42	20.56
	24 hr	15	2.18	2.23	2.24	2.28	2.77	2.78	2.80	3.06	3.08
HCl	1 hr	100	33.16	33.83	33.99	34.68	42.01	42.29	42.58	46.53	46.83
	Annual	25	8.29	3.46	8.50	8.67	10.50	10.57	10.64	11.63	11.71
H_2S[b]	All		---	---	---	---	---	---	---	---	---
H_2SO_4	24 hr	10 ←	8.92	9.09	9.14	9.33	11.29	11.37	11.45	12.51	12.59
	Annual	1	0.89	0.91	0.91	0.93	1.13	1.14	1.14	1.25	1.26
HF	1 hr, 24 hr	5 ←	0.91	0.93	0.93	0.95	1.15	1.16	1.17	1.28	1.28
	Annual	1	0.18	0.19	0.19	0.19	0.23	0.23	0.23	0.26	0.26
Ammonia	All	50 ←	7.75	7.90	7.93	8.10	9.81	9.87	9.94	10.86	10.94
TSP	All	0.010[c]	5.01	5.11	5.13	5.24	6.35	6.39	6.43	7.03	7.08
PM_{10}	All	0.010[c]	5.01	5.11	5.13	5.24	6.35	6.39	6.43	7.03	7.08
Arsenic	1 hr		9.11E-03	9.32E-03	9.36E-03	9.52E-03	1.16E-02	1.16E-02	1.17E-02	1.28E-02	1.29E-02
	Annual		3.55E-03	3.63E-03	3.64E-03	3.71E-03	4.50E-03	4.53E-03	4.57E-03	4.99E-03	5.02E-03
Beryllium	1 hr, 24 hr		1.38E-03	1.42E-03	1.42E-03	1.45E-03	1.76E-03	1.77E-03	1.78E-03	1.95E-03	1.96E-03
	Annual		3.49E-04	3.57E-04	3.59E-04	3.65E-04	4.42E-04	4.46E-04	4.49E-04	4.91E-04	4.94E-04
Cadmium	1 hr		3.75E-02	3.83E-02	3.85E-02	3.92E-02	4.75E-02	4.79E-02	4.83E-02	5.28E-02	5.31E-02
	Annual		4.89E-03	5.00E-03	5.05E-03	5.10E-03	6.22E-03	6.27E-03	6.32E-03	6.86E-03	6.91E-03
Chromium[d]	1 hr, 24 hr[b]		1.14E-02	1.17E-02	1.18E-02	1.20E-02	1.45E-02	1.46E-02	1.47E-02	1.61E-02	1.62E-02
	Annual[b]		2.93E-03	3.00E-03	3.03E-03	3.08E-03	3.72E-03	3.75E-03	3.77E-03	4.13E-03	4.16E-03
Lead	1 hr, 24 hr		7.81E-02	7.98E-02	8.02E-02	8.16E-02	9.90E-02	9.97E-02	1.01E-01	1.10E-01	1.11E-01
	Quarter, Annual		2.96E-02	3.03E-02	3.04E-02	3.09E-02	3.57E-02	3.78E-02	3.81E-02	4.16E-02	4.19E-02
Mercury	1 hr, 24 hr[b]		7.47E-02	7.65E-02	7.68E-02	7.80E-02	9.48E-02	9.54E-02	9.63E-02	1.05E-01	1.06E-01
	Annual[b]		3.29E-02	3.38E-02	3.38E-02	3.44E-02	4.18E-02	4.21E-02	4.25E-02	4.62E-02	4.65E-02
Nickel	1 hr		3.49E-02	3.57E-02	3.59E-02	3.65E-02	4.43E-02	4.46E-02	4.50E-02	4.91E-02	4.95E-02
	Annual		1.05E-02	1.08E-02	1.08E-02	1.10E-02	1.34E-02	1.35E-02	1.36E-02	1.48E-02	1.49E-02
PCDD/PCDF[e]	All		6.12E-06	6.24E-06	6.27E-06	6.40E-06	7.75E-06	7.80E-06	7.86E-06	8.59E-06	8.64E-06
TCDD[f]	All		----	----	----	----	----	----	----	----	2.125E-07
PAHs	1 hr		3.01E-03	3.07E-03	3.09E-03	3.14E-03	3.81E-03	3.84E-03	3.87E-03	4.23E-03	4.26E-03
	Annual		4.39E-04	4.49E-04	4.51E-04	4.59E-04	5.56E-04	5.61E-04	5.65E-04	6.17E-04	6.22E-04

[a] ppmdV at 7% O_2.
[b] Emissions revised from modeling protocol. No emissions of H_2S are expected.
[c] Grains/dscf.
[d] Hexavalent chromium assumed to be 10% of total chromium emissions shown above.
[e] Total detectable tetra- through octa- dioxin and furan emissions.
[f] Total PCDD/PCDF emissions as 2,3,7,8-TCDD equivalents. Back-calculated from the maximum annual MEI impact of 8.57E-10 ug/m^3, presented in the Health Risk Assessment for the worst-case source configuration (Clement, 1992).

August 19, 1992

MEMORANDUM TO: The Environmental Subcommittee

SUBJECT: Result of Inspection on the Waste Incinerator near NAF Atsugi

1. The Result of Inspection by Kanagawa Prefectural Government

The Kanagawa Environmental Science Center of Kanagawa Prefectural Government measured the exhaust gas of No. 2 incinerator of Jinkanpo Co. Ltd, on January 29, 1992, in which the company installed a wet scrubber in June, 1991. The result is as follows;

SUBSTANCES	ANALYTICAL METHOD	NO. OF SAMPLES	RESULT	EMISSION STANDARD
soot and dust	JIS Z 8808 (filtration)	2	300	500
cadmium*	atomic absorption	2	0.08	(1.0)
lead*	atomic absorption	2	3.78	(10)
hydrogen chloride	JIS K 0107	3	129	700
fluorine compounds*	JIS K 0105	3	1.9	(3.0)

(Note)

1. Unit: mg/Nm3
2. The volume of exhaust gas is 5,980 Nm3/h in dry base and 6,870 Nm3/h in wet base (water content 13.0%). However it fluctuates according to the amount of wastes incinerated.
3. No emission standard is set up in a waste incinerator in terms of the substances marked "*". The standard values in the parenthesis are those of similar facilities as follows and listed as reference.
   - cadmium: furnace used for refining copper, lead and zinc
   - lead: ditto
   - fluorine compounds: electric furnace used for smelting aluminum

Enclosure (1)

APPENDIX B
COMPUTER MODEL OUTPUT FILES

CASE 1

```
** INPUT FILE NAME: ATSUGIR5.INP **
** SCREENING FOR STABILITY CLASS 1, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP102.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED


 *** Message Summary For ISC2 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   ********
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   50 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

. . . . . .

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

**Model Uses RURAL Dispersion.

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

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes: 3 Source(s); 1 Source Group(s); and 50 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 Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs Tables of Overall Maximum Short Term Values (MAXTABLE Keyword)

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

**Misc. Inputs: Anem. Hgt. (m) = 10.00 ; Decay Coef. = .0000 ; Rot. Angle = .0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = .10000E+07
Output Units = MICROGRAMS/M**3

**Input Runstream File: ATSUGIR5.INP ; **Output Print File: ATSUGIR5.OUT
**Detailed Error/Message File: ER.OUT

```
 99999      90  99999      90
90 1 1 5 360.0000  2.0000 293.0 1 5000.0 5000.0
```

```
** INPUT FILE NAME: ATSUGR11.INP **
** SCREENING FOR STABILITY CLASS 4, U = 10 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
              ORIG 0.0 0.0
              DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
              DDIR 360. 360. 360. 360. 360.
              ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
              FLAG 360. 10*30.5
              ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
              FLAG 360. 10*15.2
              ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
              FLAG 360. 10*1
              ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
              FLAG 360. 10*1.
              ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
              FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP410.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	15.50852 (90010105)	35.05817 (90010105)	42.61640 (90010105)	43.61862 (90010105)	41.25219 (90010105)
360.0	209.96350 (90010105)	156.65960 (90010105)	122.43050 (90010105)	95.94472 (90010105)	76.26536 (90010105)
360.0	501.66150 (90010105)	256.45180 (90010105)	173.29640 (90010105)	124.36910 (90010105)	93.35999 (90010105)
360.0	340.39140 (90010105)	203.81120 (90010105)	145.68640 (90010105)	108.81910 (90010105)	84.00520 (90010105)
360.0	152.07320 (90010105)	143.06420 (90010105)	130.02990 (90010105)	99.85178 (90010105)	91.53905 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	318.80640 (90010105)	167.69910 (90010105)	97.23468 (90010105)	54.28130 (90010105)	28.08167 (90010105)
360.0	471.27450 (90010105)	207.62510 (90010105)	109.25050 (90010105)	57.16608 (90010105)	28.60317 (90010105)
360.0	471.24670 (90010105)	221.96410 (90010105)	113.51280 (90010105)	58.15002 (90010105)	28.77692 (90010105)
360.0	202.34460 (90010105)	173.06930 (90010105)	102.83030 (90010105)	56.04716 (90010105)	28.41426 (90010105)
360.0	78.50172 (90010105)	140.19400 (90010105)	98.86919 (90010105)	55.22572 (90010105)	28.66191 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	17.32367 (90010105)	11.37225 (90010105)	7.84677 (90010105)	5.63513 (90010105)	4.18065 (90010105)
360.0	17.48573 (90010105)	11.43117 (90010105)	7.87097 (90010105)	5.64608 (90010105)	4.18600 (90010105)
360.0	17.53938 (90010105)	11.45062 (90010105)	7.87894 (90010105)	5.64968 (90010105)	4.18777 (90010105)
360.0	17.42819 (90010105)	11.41045 (90010105)	7.86250 (90010105)	5.64226 (90010105)	4.18414 (90010105)
360.0	17.52857 (90010105)	11.44675 (90010105)	7.87737 (90010105)	5.64898 (90010105)	4.18742 (90010105)

```
** INPUT FILE NAME: ATSUGIR6.INP **
** SCREENING FOR STABILITY CLASS 2, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96     1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP202.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```


*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	370.33860 (90010105)	240.57910 (90010105)	158.70260 (90010105)	111.30840 (90010105)	81.13463 (90010105)
360.0	660.62080 (90010105)	316.80020 (90010105)	196.16060 (90010105)	129.13440 (90010105)	89.90980 (90010105)
360.0	594.55950 (90010105)	339.94660 (90010105)	209.98200 (90010105)	135.59640 (90010105)	92.99996 (90010105)
360.0	159.36850 (90010105)	217.21590 (90010105)	168.00980 (90010105)	119.52070 (90010105)	85.83826 (90010105)
360.0	38.27635 (90010105)	147.48850 (90010105)	153.35090 (90010105)	113.52760 (90010105)	90.76392 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	60.99241 (90010105)	47.17255 (90010105)	37.40718 (90010105)	30.30797 (90010105)	25.01174 (90010105)
360.0	65.65788 (90010105)	49.83263 (90010105)	39.01658 (90010105)	31.33122 (90010105)	25.68993 (90010105)
360.0	67.26984 (90010105)	50.74030 (90010105)	39.56111 (90010105)	31.67538 (90010105)	25.91706 (90010105)
360.0	63.67355 (90010105)	48.76113 (90010105)	38.39128 (90010105)	30.94352 (90010105)	25.43760 (90010105)
360.0	66.92287 (90010105)	50.55132 (90010105)	39.45022 (90010105)	31.60638 (90010105)	25.87205 (90010105)

```
 99999      90  99999      90
90 1 1 5 360.0000   2.0000 293.0 2 5000.0 5000.0
```

```
** INPUT FILE NAME: ATSUGIR7.INP **
** SCREENING FOR STABILITY CLASS 3, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP302.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	404.15170 (90010105)	337.20070 (90010105)	241.89510 (90010105)	183.50170 (90010105)	144.37680 (90010105)
360.0	905.55890 (90010105)	477.54740 (90010105)	320.74920 (90010105)	231.54080 (90010105)	174.36760 (90010105)
360.0	849.68210 (90010105)	504.98410 (90010105)	348.66500 (90010105)	249.45300 (90010105)	185.44140 (90010105)
360.0	192.61100 (90010105)	263.50380 (90010105)	241.07090 (90010105)	195.85780 (90010105)	156.17440 (90010105)
360.0	38.96788 (90010105)	148.47960 (90010105)	206.62590 (90010105)	177.12150 (90010105)	176.26800 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	116.34260 (90010105)	95.50970 (90010105)	79.65186 (90010105)	67.34737 (90010105)	57.63912 (90010105)
360.0	135.64000 (90010105)	108.34200 (90010105)	88.46077 (90010105)	73.57312 (90010105)	62.15533 (90010105)
360.0	142.64120 (90010105)	112.92350 (90010105)	91.56483 (90010105)	75.74400 (90010105)	63.71695 (90010105)
360.0	125.42270 (90010105)	102.16260 (90010105)	84.49968 (90010105)	70.91283 (90010105)	60.29935 (90010105)
360.0	140.96290 (90010105)	111.88890 (90010105)	90.89220 (90010105)	75.28747 (90010105)	63.39586 (90010105)

```
 99999      90  99999      90
90 1 1 5 360.0000  2.0000 293.0 3 5000.0 5000.0
```

```
** INPUT FILE NAME: ATSUGIR8.INP **
** SCREENING FOR STABILITY CLASS 3, U = 5 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP305.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	44.70330 (90010105)	91.06088 (90010105)	90.13190 (90010105)	75.50103 (90010105)	61.02069 (90010105)
360.0	334.03560 (90010105)	236.65720 (90010105)	157.30730 (90010105)	108.86880 (90010105)	79.10545 (90010105)
360.0	703.14220 (90010105)	325.22810 (90010105)	189.02870 (90010105)	122.81350 (90010105)	86.16081 (90010105)
360.0	409.91330 (90010105)	248.09120 (90010105)	161.04050 (90010105)	110.53650 (90010105)	79.97396 (90010105)
360.0	159.30100 (90010105)	179.31270 (90010105)	147.87320 (90010105)	104.56420 (90010105)	84.66252 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	49.34237 (90010105)	40.34963 (90010105)	33.45602 (90010105)	28.12349 (90010105)	23.94291 (90010105)
360.0	59.91383 (90010105)	46.92486 (90010105)	37.75811 (90010105)	31.05797 (90010105)	26.01504 (90010105)
360.0	63.86607 (90010105)	49.31466 (90010105)	39.29126 (90010105)	32.08891 (90010105)	26.73527 (90010105)
360.0	60.41277 (90010105)	47.23265 (90010105)	37.95871 (90010105)	31.19454 (90010105)	26.11141 (90010105)
360.0	63.64422 (90010105)	49.18143 (90010105)	39.20628 (90010105)	32.03202 (90010105)	26.69567 (90010105)

```
 99999      90  99999      90
90 1 1 5 360.0000  5.0000 293.0 3 5000.0 5000.0
```

```
** INPUT FILE NAME: ATSUGIR9.INP **
** SCREENING FOR STABILITY CLASS 4, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP402.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	449.37530 (90010105)	430.32860 (90010105)	344.45190 (90010105)	278.04100 (90010105)	229.77620 (90010105)
360.0	1191.04500 (90010105)	675.34460 (90010105)	487.34810 (90010105)	378.15920 (90010105)	304.78380 (90010105)
360.0	1245.61700 (90010105)	693.32150 (90010105)	518.49200 (90010105)	408.51950 (90010105)	330.64110 (90010105)
360.0	277.11870 (90010105)	298.85410 (90010105)	286.14550 (90010105)	259.68710 (90010105)	230.59080 (90010105)
360.0	50.39112 (90010105)	138.26410 (90010105)	221.35650 (90010105)	213.86400 (90010105)	298.66320 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	194.23830 (90010105)	167.19230 (90010105)	145.93300 (90010105)	131.41720 (90010105)	117.62720 (90010105)
360.0	251.98180 (90010105)	212.31980 (90010105)	181.60880 (90010105)	162.85140 (90010105)	143.56160 (90010105)
360.0	272.92410 (90010105)	228.98460 (90010105)	194.83000 (90010105)	174.49720 (90010105)	153.13930 (90010105)
360.0	203.19010 (90010105)	178.89810 (90010105)	157.91360 (90010105)	142.32710 (90010105)	127.78660 (90010105)
360.0	265.88260 (90010105)	224.01790 (90010105)	191.22080 (90010105)	171.35710 (90010105)	150.69080 (90010105)

```
 99999      90  99999      90
90 1 1 5 360.0000   2.0000 293.0 4 5000.0 5000.0
```

```
** INPUT FILE NAME: ATSUGR10.INP **
** SCREENING FOR STABILITY CLASS 4, U = 5 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP405.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	47.10912 (90010105)	83.57851 (90010105)	93.50348 (90010105)	91.31648 (90010105)	84.27417 (90010105)
360.0	429.49610 (90010105)	312.89350 (90010105)	240.55540 (90010105)	187.66640 (90010105)	149.21020 (90010105)
360.0	946.15940 (90010105)	480.82300 (90010105)	327.52780 (90010105)	237.63650 (90010105)	179.99400 (90010105)
360.0	554.13480 (90010105)	343.38810 (90010105)	252.51800 (90010105)	193.89080 (90010105)	152.99950 (90010105)
360.0	208.87120 (90010105)	222.08850 (90010105)	218.44540 (90010105)	173.56890 (90010105)	173.61900 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	75.96153 (90010105)	67.85489 (90010105)	60.48847 (90010105)	54.63337 (90010105)	49.34059 (90010105)
360.0	121.07070 (90010105)	100.10220 (90010105)	84.14640 (90010105)	75.27212 (90010105)	65.60886 (90010105)
360.0	141.11330 (90010105)	113.75290 (90010105)	93.79568 (90010105)	83.63901 (90010105)	72.05605 (90010105)
360.0	123.58030 (90010105)	101.85330 (90010105)	85.41424 (90010105)	76.37480 (90010105)	66.47955 (90010105)
360.0	140.00550 (90010105)	113.00130 (90010105)	93.26723 (90010105)	83.18069 (90010105)	71.70561 (90010105)

```
 99999      90  99999      90
90 1 1 5 360.0000  5.0000 293.0 4 5000.0 5000.0
```

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	37.66304 (90010105)	33.87439 (90010105)	30.33599 (90010105)	27.39058 (90010105)	24.77444 (90010105)
360.0	61.77384 (90010105)	50.96866 (90010105)	43.55127 (90010105)	38.25327 (90010105)	33.29485 (90010105)
360.0	72.69746 (90010105)	58.30252 (90010105)	49.05731 (90010105)	42.69709 (90010105)	36.69553 (90010105)
360.0	66.73125 (90010105)	54.30685 (90010105)	46.06863 (90010105)	40.28130 (90010105)	34.85187 (90010105)
360.0	72.46163 (90010105)	58.14428 (90010105)	48.94189 (90010105)	42.60143 (90010105)	36.62275 (90010105)

```
 99999      90  99999      90
90 1 1 5 360.0000  10.0000 293.0 4 5000.0 5000.0
```

```
** INPUT FILE NAME: ATSUGR12.INP **
** SCREENING FOR STABILITY CLASS 5, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP502.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	435.13340 (90010105)	573.80130 (90010105)	440.47040 (90010105)	353.49750 (90010105)	291.09090 (90010105)
360.0	1196.93100 (90010105)	601.57640 (90010105)	436.57390 (90010105)	349.81570 (90010105)	293.36890 (90010105)
360.0	1687.80500 (90010105)	419.08990 (90010105)	345.78540 (90010105)	300.60750 (90010105)	266.64190 (90010105)
360.0	446.41740 (90010105)	118.98230 (90010105)	129.74070 (90010105)	135.06250 (90010105)	136.00810 (90010105)
360.0	87.05826 (90010105)	42.25535 (90010105)	87.73342 (90010105)	97.94113 (90010105)	217.85370 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	244.87810 (90010105)	215.64130 (90010105)	187.82830 (90010105)	166.30710 (90010105)	148.93500 (90010105)
360.0	252.65810 (90010105)	223.34840 (90010105)	198.70070 (90010105)	178.75480 (90010105)	162.18720 (90010105)
360.0	238.93470 (90010105)	213.03590 (90010105)	194.11690 (90010105)	177.46050 (90010105)	162.96320 (90010105)
360.0	133.97400 (90010105)	122.52520 (90010105)	118.75200 (90010105)	113.76940 (90010105)	108.65680 (90010105)
360.0	226.11610 (90010105)	202.10320 (90010105)	185.29550 (90010105)	170.18000 (90010105)	156.87820 (90010105)

```
 99999      90  99999      90
90 1 1 5 360.0000  2.0000 293.0 5 5000.0 5000.0
```

```
** INPUT FILE NAME: ATSUGR13.INP **
** SCREENING FOR STABILITY CLASS 6, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT  25.7  8.6   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0

   LOCATION ATSUG3   POINT  8.0  -17.1  38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL

SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.
```

```
RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP602.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	405.98600 (90010105)	534.57870 (90010105)	451.95030 (90010105)	399.50010 (90010105)	356.69050 (90010105)
360.0	1407.87400 (90010105)	876.73540 (90010105)	657.99300 (90010105)	540.47740 (90010105)	462.86940 (90010105)
360.0	2481.38000 (90010105)	883.23280 (90010105)	651.04450 (90010105)	529.50920 (90010105)	453.64020 (90010105)
360.0	806.84280 (90010105)	312.32420 (90010105)	260.21780 (90010105)	231.83070 (90010105)	213.55920 (90010105)
360.0	184.66870 (90010105)	123.07090 (90010105)	175.64150 (90010105)	162.46280 (90010105)	367.93030 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	319.57870 (90010105)	287.58010 (90010105)	260.06760 (90010105)	236.45030 (90010105)	216.15160 (90010105)
360.0	405.44610 (90010105)	360.40230 (90010105)	323.87020 (90010105)	293.59690 (90010105)	268.10820 (90010105)
360.0	400.06930 (90010105)	358.87870 (90010105)	325.63160 (90010105)	297.93750 (90010105)	274.36590 (90010105)
360.0	200.01990 (90010105)	188.86620 (90010105)	179.18230 (90010105)	170.50830 (90010105)	162.59300 (90010105)
360.0	376.91380 (90010105)	339.61900 (90010105)	309.34380 (90010105)	283.99400 (90010105)	262.31360 (90010105)

```
 99999      90  99999      90
90 1 1 5 360.0000  2.0000 293.0 6 5000.0 5000.0
```

CASE 2.

```
** INPUT FILE NAME: ATSUGIR9.INP **
** SCREENING FOR STABILITY CLASS 4, U = 2 M/S**
** EXIT VELOCITY TRIPLED TO REMOVE BLDG. WAKE FOR STABILITY CLASS COMPARISON**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    8.22      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0

   LOCATION ATSUG2   POINT 25.7   8.6   38.1

**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477   11.9      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0


   LOCATION ATSUG3   POINT  8.0  -17.1   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    15.8     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
```

```
                FLAG 360. 10*1.

 RE GRIDPOLR POL END
 RE FINISHED

 ME STARTING
    INPUTFIL  PTP402.MET
    ANEMHGHT  32.8 FEET
    SURFDATA  99999 1990
    UAIRDATA  99999 1990
 ** WDROTATE  180
 ME FINISHED

 OU STARTING
    RECTABLE   ALLAVE FIRST
    MAXTABLE   ALLAVE 50
 ** DAYTABLE   1
 OU FINISHED


  *** Message Summary For ISC2 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   ********
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	962.36900 (90010105)	292.20480 (90010105)	204.70500 (90010105)	177.18750 (90010105)	150.81120 (90010105)
360.0	532.18540 (90010105)	34.68249 (90010105)	45.38554 (90010105)	57.55856 (90010105)	64.48155 (90010105)
360.0	5.29803 (90010105)	5.49136 (90010105)	12.09360 (90010105)	21.51628 (90010105)	32.59457 (90010105)
360.0	.01689 (90010105)	1.64242 (90010105)	4.13975 (90010105)	7.97893 (90010105)	13.52723 (90010105)
360.0	.00041 (90010105)	.47016 (90010105)	2.54329 (90010105)	5.30246 (90010105)	25.83675 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	128.82890 (90010105)	111.26580 (90010105)	97.39951 (90010105)	86.41771 (90010105)	78.07182 (90010105)
360.0	67.53111 (90010105)	68.22076 (90010105)	67.47763 (90010105)	65.83980 (90010105)	63.00591 (90010105)
360.0	42.46415 (90010105)	49.75366 (90010105)	54.36225 (90010105)	56.73352 (90010105)	56.29176 (90010105)
360.0	19.98286 (90010105)	26.19989 (90010105)	31.41439 (90010105)	35.34373 (90010105)	36.77281 (90010105)
360.0	39.43393 (90010105)	46.66852 (90010105)	51.44170 (90010105)	54.07909 (90010105)	53.89202 (90010105)

```
** INPUT FILE NAME: ATSUGIR18.INP **
** SCREENING FOR STABILITY CLASS 4, U = 5 M/S**
** EXIT VELOCITY TRIPLED TO REMOVE BLDG. WAKE FOR STABILITY CLASS COMPARISON**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    8.22      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0

   LOCATION ATSUG2   POINT 25.7   8.6   38.1

**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477   11.9      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0


   LOCATION ATSUG3   POINT  8.0  -17.1   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    15.8     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
```

```
            FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP405.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	87.75715 (90010105)	148.55690 (90010105)	131.10150 (90010105)	108.46940 (90010105)	91.02496 (90010105)
360.0	411.29250 (90010105)	284.06790 (90010105)	204.98200 (90010105)	158.82910 (90010105)	127.52870 (90010105)
360.0	875.49350 (90010105)	332.46680 (90010105)	229.00740 (90010105)	177.16060 (90010105)	141.40870 (90010105)
360.0	352.25660 (90010105)	155.78710 (90010105)	130.56530 (90010105)	115.62420 (90010105)	100.81730 (90010105)
360.0	88.86739 (90010105)	75.13757 (90010105)	101.91060 (90010105)	95.96803 (90010105)	128.68630 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	77.69305 (90010105)	67.27520 (90010105)	58.93092 (90010105)	53.09169 (90010105)	47.58569 (90010105)
360.0	104.98810 (90010105)	88.10313 (90010105)	75.08179 (90010105)	67.26073 (90010105)	59.11153 (90010105)
360.0	115.48490 (90010105)	96.09082 (90010105)	81.22360 (90010105)	72.63644 (90010105)	63.44453 (90010105)
360.0	87.60971 (90010105)	76.30295 (90010105)	66.77502 (90010105)	60.07788 (90010105)	53.62228 (90010105)
360.0	112.75290 (90010105)	94.18311 (90010105)	79.84859 (90010105)	71.44315 (90010105)	62.52071 (90010105)

```
** INPUT FILE NAME: ATSUGR19.INP **
** SCREENING FOR STABILITY CLASS 4, U = 10 M/S**
** EXIT VELOCITY TRIPLED TO REMOVE BLDG. WAKE FOR STABILITY CLASS COMPARISON**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    8.22      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0

   LOCATION ATSUG2   POINT 25.7   8.6   38.1

**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477   11.9      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0


   LOCATION ATSUG3   POINT  8.0  -17.1   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    15.8     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
```

```
            FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP410.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	20.41055 (90010105)	44.27367 (90010105)	48.71685 (90010105)	46.61684 (90010105)	42.54576 (90010105)
360.0	209.97030 (90010105)	155.63710 (90010105)	118.99690 (90010105)	92.69301 (90010105)	73.72906 (90010105)
360.0	489.67080 (90010105)	234.73510 (90010105)	159.17910 (90010105)	116.05990 (90010105)	88.29659 (90010105)
360.0	293.09060 (90010105)	161.56540 (90010105)	118.56750 (90010105)	92.15163 (90010105)	73.41527 (90010105)
360.0	110.09810 (90010105)	101.18420 (90010105)	101.26360 (90010105)	81.68605 (90010105)	84.62185 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	38.11971 (90010105)	33.94120 (90010105)	30.20359 (90010105)	27.27074 (90010105)	24.61021 (90010105)
360.0	59.88734 (90010105)	49.57330 (90010105)	41.71766 (90010105)	37.30310 (90010105)	32.53969 (90010105)
360.0	69.46426 (90010105)	56.14568 (90010105)	46.39113 (90010105)	41.35046 (90010105)	35.67024 (90010105)
360.0	59.73270 (90010105)	49.50610 (90010105)	41.69552 (90010105)	37.28444 (90010105)	32.54086 (90010105)
360.0	68.79440 (90010105)	55.68932 (90010105)	46.06924 (90010105)	41.07146 (90010105)	35.45644 (90010105)

```
** INPUT FILE NAME: ATSUGR13.INP **
** SCREENING FOR STABILITY CLASS 6, U = 2 M/S**
** EXIT VELOCITY TRIPLED TO REMOVE BLDG. WAKE FOR STABILITY CLASS COMPARISON**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    8.22      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0

   LOCATION ATSUG2   POINT 25.7   8.6   38.1

**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477   11.9      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0


   LOCATION ATSUG3   POINT  8.0  -17.1   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    15.8     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
```

```
                FLAG 360. 10*1.

 RE GRIDPOLR POL END
 RE FINISHED

 ME STARTING
    INPUTFIL  PTP602.MET
    ANEMHGHT  32.8 FEET
    SURFDATA  99999 1990
    UAIRDATA  99999 1990
 ** WDROTATE  180
 ME FINISHED

 OU STARTING
    RECTABLE   ALLAVE FIRST
    MAXTABLE   ALLAVE 50
 ** DAYTABLE   1
 OU FINISHED


  *** Message Summary For ISC2 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   ********
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
 RE W250   51 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	679.26650 (90010105)	992.68980 (90010105)	730.96620 (90010105)	584.40890 (90010105)	486.55230 (90010105)
360.0	1828.00800 (90010105)	477.77500 (90010105)	354.69270 (90010105)	290.91590 (90010105)	251.46190 (90010105)
360.0	487.41500 (90010105)	64.73754 (90010105)	71.01564 (90010105)	78.87571 (90010105)	85.35421 (90010105)
360.0	13.02823 (90010105)	3.26753 (90010105)	5.86476 (90010105)	9.64360 (90010105)	14.06033 (90010105)
360.0	.31690 (90010105)	.34885 (90010105)	2.35858 (90010105)	4.44327 (90010105)	46.25641 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	417.12640 (90010105)	360.88710 (90010105)	316.60820 (90010105)	280.43130 (90010105)	250.47490 (90010105)
360.0	224.85450 (90010105)	204.34540 (90010105)	187.48590 (90010105)	173.56560 (90010105)	161.77000 (90010105)
360.0	87.68140 (90010105)	91.87666 (90010105)	94.50501 (90010105)	96.29371 (90010105)	97.33647 (90010105)
360.0	17.48284 (90010105)	21.99448 (90010105)	26.12803 (90010105)	30.00014 (90010105)	33.52224 (90010105)
360.0	73.47678 (90010105)	78.76988 (90010105)	82.45635 (90010105)	85.22501 (90010105)	87.16657 (90010105)

CASE 3

```
** INPUT FILE NAME: ATSUGR16.INP **
** SCREENING FOR STABILITY CLASS 4, U = 2 M/S**
** ORIG. EXIT VELOCITY BUT REMOVED BLDG. TERMS FOR STABILITY CLASS COMPARISON**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2

   LOCATION ATSUG2   POINT 25.7   8.6   38.1

**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477   3.97      1.0


   LOCATION ATSUG3   POINT  8.0  -17.1   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
```

```
   INPUTFIL  PTP402.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	1091.20000 (90010105)	711.41590 (90010105)	492.70720 (90010105)	356.75210 (90010105)	270.94940 (90010105)
360.0	821.94690 (90010105)	599.40980 (90010105)	445.81710 (90010105)	348.25990 (90010105)	283.92700 (90010105)
360.0	52.43160 (90010105)	167.95550 (90010105)	247.37330 (90010105)	266.86360 (90010105)	255.86470 (90010105)
360.0	4.18268 (90010105)	33.29343 (90010105)	80.75697 (90010105)	116.35190 (90010105)	135.28170 (90010105)
360.0	.12217 (90010105)	6.84525 (90010105)	49.62901 (90010105)	82.15422 (90010105)	213.43500 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	215.71620 (90010105)	178.59810 (90010105)	152.27370 (90010105)	132.59320 (90010105)	117.24900 (90010105)
360.0	238.47070 (90010105)	204.18340 (90010105)	177.13700 (90010105)	155.19780 (90010105)	137.14920 (90010105)
360.0	232.99050 (90010105)	207.61320 (90010105)	183.60250 (90010105)	162.24480 (90010105)	143.81640 (90010105)
360.0	140.76630 (90010105)	137.97810 (90010105)	130.89230 (90010105)	121.97230 (90010105)	112.62790 (90010105)
360.0	222.02020 (90010105)	199.58410 (90010105)	177.66970 (90010105)	157.79670 (90010105)	140.42770 (90010105)

```
** INPUT FILE NAME: ATSUGR17.INP **
** SCREENING FOR STABILITY CLASS 6, U = 2 M/S**
** ORIG. EXIT VELOCITY BUT REMOVED BLDG. TERMS FOR STABILITY CLASS COMPARISON**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2


   LOCATION ATSUG2   POINT 25.7   8.6   38.1

**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477   3.96      1.0


   LOCATION ATSUG3   POINT  8.0  -17.1   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75


   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  PTP602.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	1642.03600 (90010105)	1021.55600 (90010105)	840.49100 (90010105)	700.80760 (90010105)	589.74410 (90010105)
360.0	492.58250 (90010105)	537.22910 (90010105)	487.72910 (90010105)	442.16690 (90010105)	399.22360 (90010105)
360.0	1.88784 (90010105)	28.23532 (90010105)	46.12950 (90010105)	68.63773 (90010105)	92.51638 (90010105)
360.0	.04729 (90010105)	1.36248 (90010105)	3.60668 (90010105)	7.87255 (90010105)	14.42939 (90010105)
360.0	.00020 (90010105)	.07635 (90010105)	1.13987 (90010105)	3.00337 (90010105)	59.61968 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	500.01820 (90010105)	427.54750 (90010105)	371.54970 (90010105)	325.70670 (90010105)	287.96000 (90010105)
360.0	359.32950 (90010105)	323.51210 (90010105)	292.81050 (90010105)	266.41020 (90010105)	243.79990 (90010105)
360.0	114.57530 (90010105)	132.52950 (90010105)	143.03370 (90010105)	149.83390 (90010105)	153.53220 (90010105)
360.0	22.94812 (90010105)	32.50351 (90010105)	40.72664 (90010105)	48.37723 (90010105)	55.12276 (90010105)
360.0	99.18013 (90010105)	116.68720 (90010105)	127.54660 (90010105)	135.07640 (90010105)	139.71350 (90010105)

```
** INPUT FILE NAME: ATSUGR20.INP **
** SCREENING FOR STABILITY CLASS 4, U = 5 M/S**
** EXIT VELOCITY TRIPLED AND BLDG. TERMS REMOVED FOR STABILITY CLASS COMPARISON*

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    8.22      1.2


   LOCATION ATSUG2   POINT 25.7   8.6   38.1

**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477   11.9      1.0


   LOCATION ATSUG3   POINT  8.0  -17.1   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    15.8     0.75

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
                ORIG 0.0 0.0
                DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
                DDIR 360. 360. 360. 360. 360.
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*30.5
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*15.2
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*1.
                ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
                FLAG 360. 10*1.
                ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
                FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  PTP405.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	398.37580 (90010105)	265.85170 (90010105)	188.05010 (90010105)	138.55380 (90010105)	106.55570 (90010105)
360.0	433.47440 (90010105)	279.52980 (90010105)	197.92630 (90010105)	151.37060 (90010105)	121.87740 (90010105)
360.0	9.28947 (90010105)	83.10909 (90010105)	120.52730 (90010105)	124.20320 (90010105)	115.20330 (90010105)
360.0	.44181 (90010105)	17.21789 (90010105)	40.60397 (90010105)	55.78363 (90010105)	62.57866 (90010105)
360.0	.00351 (90010105)	3.58691 (90010105)	25.24837 (90010105)	39.82090 (90010105)	96.73238 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	85.71094 (90010105)	71.54031 (90010105)	61.35400 (90010105)	53.63220 (90010105)	47.53634 (90010105)
360.0	101.44360 (90010105)	86.21583 (90010105)	74.32351 (90010105)	64.76553 (90010105)	56.97056 (90010105)
360.0	102.43910 (90010105)	89.71176 (90010105)	78.31625 (90010105)	68.52551 (90010105)	60.28030 (90010105)
360.0	63.38866 (90010105)	60.88247 (90010105)	56.86258 (90010105)	52.34809 (90010105)	47.88026 (90010105)
360.0	97.85165 (90010105)	86.42978 (90010105)	75.93193 (90010105)	66.76085 (90010105)	58.94944 (90010105)

```
** INPUT FILE NAME: ATSUGR21.INP **
** SCREENING FOR STABILITY CLASS 4, U = 10 M/S**
** EXIT VELOCITY TRIPLED AND BLDG. TERMS REMOVED FOR STABILITY CLASS COMPARISON*

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  0.0   0.0   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    8.22      1.2


   LOCATION ATSUG2   POINT 25.7   8.6   38.1

**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477   11.9      1.0


   LOCATION ATSUG3   POINT  8.0  -17.1   38.1
**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    15.8     0.75

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED
```

```
ME STARTING
   INPUTFIL  PTP410.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED


 *** Message Summary For ISC2 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   ********
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL
RE W250   46 RADRNG: Duplicate XPNT/DIST or YPNT/DIR Specified for GRID POL

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	.46010 (90010105)	19.17267 (90010105)	35.74504 (90010105)	39.60390 (90010105)	38.84923 (90010105)
360.0	339.89610 (90010105)	187.44330 (90010105)	131.53330 (90010105)	101.31650 (90010105)	80.75233 (90010105)
360.0	180.99840 (90010105)	226.63740 (90010105)	176.92200 (90010105)	133.06280 (90010105)	101.57040 (90010105)
360.0	8.32847 (90010105)	57.63674 (90010105)	79.47581 (90010105)	77.67107 (90010105)	68.86777 (90010105)
360.0	.09129 (90010105)	14.33724 (90010105)	54.69268 (90010105)	60.52498 (90010105)	91.24237 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	36.42548 (90010105)	33.44083 (90010105)	30.38565 (90010105)	27.48694 (90010105)	24.84374 (90010105)
360.0	65.72178 (90010105)	54.40122 (90010105)	45.70559 (90010105)	38.91216 (90010105)	33.54476 (90010105)
360.0	79.48408 (90010105)	63.74342 (90010105)	52.23854 (90010105)	43.61156 (90010105)	37.02126 (90010105)
360.0	59.17302 (90010105)	50.50544 (90010105)	43.23923 (90010105)	37.26978 (90010105)	32.40620 (90010105)
360.0	77.56074 (90010105)	62.52390 (90010105)	51.42570 (90010105)	43.04711 (90010105)	36.61573 (90010105)

CASE 4

```
** INPUT FILE NAME: ATSUGR26.INP **
** SCREENING FOR STABILITY CLASS 1, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISSIONS, SOURCE JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA   0.0  0.0   38.1

**          SOURCE    AREA EMISS.   RELEASE    LENGTH OF SIDE
**       PARAMETERS      RATE       HEIGHT      OF SQ. AREA
** ---------------    -----------   -------    --------------
   SRCPARAM ATSUG1      0.000223      1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
                ORIG 0.0 0.0
                DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
                DDIR 360. 360. 360. 360. 360.
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*30.5
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*15.2
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*1.
                ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
                FLAG 360. 10*1.
                ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
                FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP102.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	20.48090 (90010105)	55.82988 (90010105)	39.13149 (90010105)	23.45686 (90010105)	13.85832 (90010105)
360.0	142.79690 (90010105)	85.52303 (90010105)	45.96899 (90010105)	25.18675 (90010105)	14.32164 (90010105)
360.0	270.50790 (90010105)	98.40546 (90010105)	48.47019 (90010105)	25.78333 (90010105)	14.47744 (90010105)
360.0	270.50790 (90010105)	98.40546 (90010105)	48.47019 (90010105)	25.78333 (90010105)	14.47744 (90010105)
360.0	270.50790 (90010105)	98.40546 (90010105)	48.47019 (90010105)	25.78333 (90010105)	14.47744 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	8.20408 (90010105)	5.18981 (90010105)	3.47504 (90010105)	2.43530 (90010105)	1.77063 (90010105)
360.0	8.32981 (90010105)	5.23090 (90010105)	3.49059 (90010105)	2.44190 (90010105)	1.77369 (90010105)
360.0	8.37159 (90010105)	5.24448 (90010105)	3.49572 (90010105)	2.44407 (90010105)	1.77470 (90010105)
360.0	8.37159 (90010105)	5.24448 (90010105)	3.49572 (90010105)	2.44407 (90010105)	1.77470 (90010105)
360.0	8.37159 (90010105)	5.24448 (90010105)	3.49572 (90010105)	2.44407 (90010105)	1.77470 (90010105)

```
** INPUT FILE NAME: ATSUGR27.INP **
** SCREENING FOR STABILITY CLASS 2, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISSIONS, SOURCE JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA   0.0  0.0   38.1

**          SOURCE    AREA EMISS.   RELEASE    LENGTH OF SIDE
**       PARAMETERS      RATE       HEIGHT      OF SQ. AREA
** ---------------    -----------   -------    --------------
   SRCPARAM ATSUG1      0.000223      1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP202.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	4.58598 (90010105)	46.49657 (90010105)	52.64954 (90010105)	42.24289 (90010105)	31.56026 (90010105)
360.0	129.69460 (90010105)	112.89580 (90010105)	78.18151 (90010105)	52.79902 (90010105)	36.17368 (90010105)
360.0	389.40030 (90010105)	151.15650 (90010105)	89.04232 (90010105)	56.81942 (90010105)	37.83438 (90010105)
360.0	389.40030 (90010105)	151.15650 (90010105)	89.04232 (90010105)	56.81942 (90010105)	37.83438 (90010105)
360.0	389.40030 (90010105)	151.15650 (90010105)	89.04232 (90010105)	56.81942 (90010105)	37.83438 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	23.68340 (90010105)	18.17095 (90010105)	14.28121 (90010105)	11.47468 (90010105)	9.39955 (90010105)
360.0	25.94415 (90010105)	19.38869 (90010105)	14.98810 (90010105)	11.91031 (90010105)	9.68135 (90010105)
360.0	26.73414 (90010105)	19.80690 (90010105)	15.22823 (90010105)	12.05721 (90010105)	9.77590 (90010105)
360.0	26.73414 (90010105)	19.80690 (90010105)	15.22823 (90010105)	12.05721 (90010105)	9.77590 (90010105)
360.0	26.73414 (90010105)	19.80690 (90010105)	15.22823 (90010105)	12.05721 (90010105)	9.77590 (90010105)

```
** INPUT FILE NAME: ATSUGR28.INP **
** SCREENING FOR STABILITY CLASS 3, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISSIONS, SOURCE JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA   0.0  0.0   38.1

**          SOURCE    AREA EMISS.   RELEASE    LENGTH OF SIDE
**       PARAMETERS      RATE       HEIGHT      OF SQ. AREA
** ---------------    -----------   -------    --------------
   SRCPARAM ATSUG1      0.000223      1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
                ORIG 0.0 0.0
                DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
                DDIR 360. 360. 360. 360. 360.
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*30.5
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*15.2
                ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
                FLAG 360. 10*1.
                ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
                FLAG 360. 10*1.
                ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
                FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP302.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	.08339 (90010105)	20.16440 (90010105)	46.50736 (90010105)	53.03833 (90010105)	49.13304 (90010105)
360.0	68.86494 (90010105)	126.80500 (90010105)	110.62950 (90010105)	88.24641 (90010105)	68.84396 (90010105)
360.0	626.10240 (90010105)	232.19540 (90010105)	147.12610 (90010105)	104.33770 (90010105)	76.92398 (90010105)
360.0	626.10240 (90010105)	232.19540 (90010105)	147.12610 (90010105)	104.33770 (90010105)	76.92398 (90010105)
360.0	626.10240 (90010105)	232.19540 (90010105)	147.12610 (90010105)	104.33770 (90010105)	76.92398 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	42.44496 (90010105)	35.91370 (90010105)	30.32774 (90010105)	25.74843 (90010105)	22.03715 (90010105)
360.0	54.01626 (90010105)	43.06229 (90010105)	34.95513 (90010105)	28.86804 (90010105)	24.21486 (90010105)
360.0	58.47501 (90010105)	45.71244 (90010105)	36.62694 (90010105)	29.97489 (90010105)	24.97737 (90010105)
360.0	58.47501 (90010105)	45.71244 (90010105)	36.62694 (90010105)	29.97489 (90010105)	24.97737 (90010105)
360.0	58.47501 (90010105)	45.71244 (90010105)	36.62694 (90010105)	29.97489 (90010105)	24.97737 (90010105)

```
** INPUT FILE NAME: ATSUGR29.INP **
** SCREENING FOR STABILITY CLASS 4, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISSIONS, SOURCE JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA   0.0  0.0   38.1

**          SOURCE    AREA EMISS.   RELEASE    LENGTH OF SIDE
**       PARAMETERS      RATE       HEIGHT      OF SQ. AREA
** ---------------    -----------   -------    --------------
   SRCPARAM ATSUG1      0.000223      1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP402.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	.00000 (90010105)	.56899 (90010105)	10.30924 (90010105)	26.18097 (90010105)	38.68435 (90010105)
360.0	4.47894 (90010105)	80.86453 (90010105)	117.61680 (90010105)	119.63010 (90010105)	111.19180 (90010105)
360.0	1070.89200 (90010105)	412.73420 (90010105)	261.98930 (90010105)	197.21030 (90010105)	157.37320 (90010105)
360.0	1070.89200 (90010105)	412.73420 (90010105)	261.98930 (90010105)	197.21030 (90010105)	157.37320 (90010105)
360.0	1070.89200 (90010105)	412.73420 (90010105)	261.98930 (90010105)	197.21030 (90010105)	157.37320 (90010105)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	45.34407 (90010105)	47.38474 (90010105)	46.60443 (90010105)	44.35074 (90010105)	41.45299 (90010105)
360.0	99.35226 (90010105)	87.22708 (90010105)	76.14775 (90010105)	66.51740 (90010105)	58.32562 (90010105)
360.0	128.60380 (90010105)	106.62040 (90010105)	89.49725 (90010105)	76.00646 (90010105)	65.26062 (90010105)
360.0	128.60380 (90010105)	106.62040 (90010105)	89.49725 (90010105)	76.00646 (90010105)	65.26062 (90010105)
360.0	128.60380 (90010105)	106.62040 (90010105)	89.49725 (90010105)	76.00646 (90010105)	65.26062 (90010105)

```
** INPUT FILE NAME: ATSUGR30.INP **
** SCREENING FOR STABILITY CLASS 4, U = 5 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISSIONS, SOURCE JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA   0.0  0.0   38.1

**          SOURCE    AREA EMISS.   RELEASE    LENGTH OF SIDE
**       PARAMETERS      RATE       HEIGHT      OF SQ. AREA
** ---------------    -----------   -------    --------------
   SRCPARAM ATSUG1      0.000223      1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP405.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	.00000 (90010105)	.22760 (90010105)	4.12369 (90010105)	10.47239 (90010105)	15.47374 (90010105)
360.0	1.79158 (90010105)	32.34581 (90010105)	47.04670 (90010105)	47.85203 (90010105)	44.47671 (90010105)
360.0	428.35690 (90010105)	165.09370 (90010105)	104.79570 (90010105)	78.88412 (90010105)	62.94928 (90010105)
360.0	428.35690 (90010105)	165.09370 (90010105)	104.79570 (90010105)	78.88412 (90010105)	62.94928 (90010105)
360.0	428.35690 (90010105)	165.09370 (90010105)	104.79570 (90010105)	78.88412 (90010105)	62.94928 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	18.13763 (90010105)	18.95390 (90010105)	18.64177 (90010105)	17.74030 (90010105)	16.58120 (90010105)
360.0	39.74091 (90010105)	34.89083 (90010105)	30.45910 (90010105)	26.60696 (90010105)	23.33025 (90010105)
360.0	51.44152 (90010105)	42.64817 (90010105)	35.79890 (90010105)	30.40258 (90010105)	26.10425 (90010105)
360.0	51.44152 (90010105)	42.64817 (90010105)	35.79890 (90010105)	30.40258 (90010105)	26.10425 (90010105)
360.0	51.44152 (90010105)	42.64817 (90010105)	35.79890 (90010105)	30.40258 (90010105)	26.10425 (90010105)

```
** INPUT FILE NAME: ATSUGR31.INP **
** SCREENING FOR STABILITY CLASS 4, U = 10 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISSIONS, SOURCE JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA   0.0  0.0   38.1

**          SOURCE    AREA EMISS.   RELEASE    LENGTH OF SIDE
**       PARAMETERS      RATE       HEIGHT      OF SQ. AREA
** ---------------    -----------   -------    --------------
   SRCPARAM ATSUG1      0.000223      1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP410.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	.00000 (90010105)	.11380 (90010105)	2.06185 (90010105)	5.23619 (90010105)	7.73687 (90010105)
360.0	.89579 (90010105)	16.17291 (90010105)	23.52335 (90010105)	23.92601 (90010105)	22.23836 (90010105)
360.0	214.17840 (90010105)	82.54684 (90010105)	52.39785 (90010105)	39.44206 (90010105)	31.47464 (90010105)
360.0	214.17840 (90010105)	82.54684 (90010105)	52.39785 (90010105)	39.44206 (90010105)	31.47464 (90010105)
360.0	214.17840 (90010105)	82.54684 (90010105)	52.39785 (90010105)	39.44206 (90010105)	31.47464 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	9.06881 (90010105)	9.47695 (90010105)	9.32089 (90010105)	8.87015 (90010105)	8.29060 (90010105)
360.0	19.87045 (90010105)	17.44542 (90010105)	15.22955 (90010105)	13.30348 (90010105)	11.66512 (90010105)
360.0	25.72076 (90010105)	21.32409 (90010105)	17.89945 (90010105)	15.20129 (90010105)	13.05212 (90010105)
360.0	25.72076 (90010105)	21.32409 (90010105)	17.89945 (90010105)	15.20129 (90010105)	13.05212 (90010105)
360.0	25.72076 (90010105)	21.32409 (90010105)	17.89945 (90010105)	15.20129 (90010105)	13.05212 (90010105)

```
** INPUT FILE NAME: ATSUGR32.INP **
** SCREENING FOR STABILITY CLASS 5, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISSIONS, SOURCE JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA   0.0  0.0   38.1

**          SOURCE    AREA EMISS.   RELEASE    LENGTH OF SIDE
**       PARAMETERS      RATE       HEIGHT      OF SQ. AREA
** ---------------    -----------   -------    --------------
   SRCPARAM ATSUG1      0.000223      1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP502.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	.00000 (90010105)	.00341 (90010105)	.76824 (90010105)	5.27309 (90010105)	13.58102 (90010105)
360.0	.13852 (90010105)	30.22269 (90010105)	81.98458 (90010105)	107.35440 (90010105)	116.37700 (90010105)
360.0	1410.09300 (90010105)	596.86970 (90010105)	380.86890 (90010105)	289.30560 (90010105)	235.93440 (90010105)
360.0	1410.09300 (90010105)	596.86970 (90010105)	380.86890 (90010105)	289.30560 (90010105)	235.93440 (90010105)
360.0	1410.09300 (90010105)	596.86970 (90010105)	380.86890 (90010105)	289.30560 (90010105)	235.93440 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	22.87012 (90010105)	30.88125 (90010105)	36.71735 (90010105)	40.38611 (90010105)	42.27427 (90010105)
360.0	116.61980 (90010105)	112.11720 (90010105)	105.23850 (90010105)	97.43665 (90010105)	89.55361 (90010105)
360.0	199.31380 (90010105)	171.35760 (90010105)	148.80810 (90010105)	130.18510 (90010105)	114.64080 (90010105)
360.0	199.31380 (90010105)	171.35760 (90010105)	148.80810 (90010105)	130.18510 (90010105)	114.64080 (90010105)
360.0	199.31380 (90010105)	171.35760 (90010105)	148.80810 (90010105)	130.18510 (90010105)	114.64080 (90010105)

```
** INPUT FILE NAME: ATSUGR33.INP **
** SCREENING FOR STABILITY CLASS 6, U = 2 M/S**

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISSIONS, SOURCE JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA   0.0  0.0   38.1

**          SOURCE    AREA EMISS.   RELEASE    LENGTH OF SIDE
**       PARAMETERS      RATE       HEIGHT      OF SQ. AREA
** ---------------    -----------   -------    --------------
   SRCPARAM ATSUG1      0.000223      1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING
RE GRIDPOLR POL STA
               ORIG 0.0 0.0
               DIST 100. 200. 300. 400. 500. 600. 700. 800. 900. 1000.
               DDIR 360. 360. 360. 360. 360.
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*30.5
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*15.2
               ELEV 360. 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
               FLAG 360. 10*1.
               ELEV 360. 150. 150. 150. 150. 150. 150. 150. 150. 150. 150.
               FLAG 360. 10*1.
               ELEV 360. 125. 130. 140. 140. 170. 180. 180. 180. 180. 180.
               FLAG 360. 10*1.

RE GRIDPOLR POL END
RE FINISHED

ME STARTING
   INPUTFIL  PTP602.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  99999 1990
   UAIRDATA  99999 1990
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 100.00	200.00	300.00	400.00	500.00
360.0	.00000 (0)	.00000 (90010105)	.00029 (90010105)	.04190 (90010105)	.52299 (90010105)
360.0	.00000 (90010105)	1.18406 (90010105)	17.25657 (90010105)	46.98888 (90010105)	74.43102 (90010105)
360.0	1967.72000 (90010105)	988.06470 (90010105)	633.51650 (90010105)	472.25840 (90010105)	380.07050 (90010105)
360.0	1967.72000 (90010105)	988.06470 (90010105)	633.51650 (90010105)	472.25840 (90010105)	380.07050 (90010105)
360.0	1967.72000 (90010105)	988.06470 (90010105)	633.51650 (90010105)	472.25840 (90010105)	380.07050 (90010105)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: POL ; NETWORK TYPE: GRIDPOLR ***

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

DIRECTION (DEGREES)	DISTANCE (METERS) 600.00	700.00	800.00	900.00	1000.00
360.0	2.25419 (90010105)	5.65073 (90010105)	9.71827 (90010105)	14.24084 (90010105)	18.78621 (90010105)
360.0	93.86983 (90010105)	105.84100 (90010105)	111.32590 (90010105)	113.50030 (90010105)	113.31850 (90010105)
360.0	320.07550 (90010105)	277.51340 (90010105)	248.30820 (90010105)	224.68190 (90010105)	204.67620 (90010105)
360.0	320.07550 (90010105)	277.51340 (90010105)	248.30820 (90010105)	224.68190 (90010105)	204.67620 (90010105)
360.0	320.07550 (90010105)	277.51340 (90010105)	248.30820 (90010105)	224.68190 (90010105)	204.67620 (90010105)

CASE 5

```
** INPUT FILE NAME: NEESAR1.INP **
** 1991 ATSUGI MET. DATA **

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3, SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  PERIOD
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING
   LOCATION ATSUG1   POINT  -18.0   66.0   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0

   LOCATION ATSUG2   POINT   3.0   80.6   38.1

**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0


   LOCATION ATSUG3   POINT  -8.0  57.1   38.1
**           SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING

** CARTESIAN GRIDS (100 M. SPACING, -1000/1000 IN X AND -600/1900 IN Y)**
RE GRIDCART G1 STA
           G1 XPNTS  -1000. -900. -800. -700. -600. -500. -400. -300.
           G1 XPNTS  -200. -100. 0. 100. 200. 300. 400. 500. 600.
           G1 XPNTS  700. 800. 900. 1000.
           G1 YPNTS  -600. -500. -400. -300. -200. -100. 0. 100. 200.
           G1 YPNTS  300. 400. 500. 600. 700. 800. 900. 1000. 1100.
           G1 YPNTS  1200. 1300. 1400. 1500. 1600. 1700. 1800. 1900.

           G1 ELEV  1 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 160.
           G1 ELEV  1 150. 125. 125. 150. 155. 160. 160. 160. 160. 160.
           G1 FLAG  1 21*1.
           G1 ELEV  2 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
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G1 ELEV  2 150. 115. 135. 160. 155. 160. 165. 160. 160. 160.
G1 FLAG  2 21*1.
G1 ELEV  3 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
G1 ELEV  3 145. 125. 150. 160. 160. 165. 165. 160. 160. 160.
G1 FLAG  3 21*1.
G1 ELEV  4 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
G1 ELEV  4 125. 125. 160. 165. 165. 165. 165. 165. 165. 165.
G1 FLAG  4 21*1.
G1 ELEV  5 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
G1 ELEV  5 125. 140. 160. 165. 165. 170. 170. 170. 170. 165.
G1 FLAG  5 21*1.
G1 ELEV  6 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 140.
G1 ELEV  6 130. 160. 170. 165. 170. 170. 170. 170. 170. 170.
G1 FLAG  6 21*1.
G1 ELEV  7 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 135.
G1 ELEV  7 135. 170. 170. 170. 170. 175. 175. 170. 170. 170.
G1 FLAG  7 21*1.
G1 ELEV  8 170. 170. 175. 175. 170. 170. 170. 170. 175. 170. 130.
G1 ELEV  8 140. 170. 175. 175. 175. 175. 175. 175. 175. 175.
G1 FLAG  8 21*1.
G1 ELEV  9 170. 170. 175. 175. 170. 170. 170. 170. 170. 160. 125.
G1 ELEV  9 160. 170. 175. 175. 175. 175. 175. 175. 175. 175.
G1 FLAG  9 21*1.
G1 ELEV 10 170. 170. 175. 175. 175. 175. 175. 175. 160. 145. 140.
G1 ELEV 10 170. 175. 175. 175. 175. 180. 180. 175. 175. 175.
G1 FLAG 10 21*1.
G1 ELEV 11 190. 180. 175. 175. 175. 175. 175. 170. 150. 150. 170.
G1 ELEV 11 175. 175. 175. 175. 175. 180. 180. 175. 175. 175.
G1 FLAG 11 21*1.
G1 ELEV 12 195. 180. 180. 180. 180. 180. 180. 180. 130. 160. 175.
G1 ELEV 12 175. 180. 180. 180. 180. 180. 180. 180. 180. 180.
G1 FLAG 12 21*1.
G1 ELEV 13 195. 180. 180. 180. 180. 180. 180. 180. 130. 160. 180.
G1 ELEV 13 180. 180. 180. 180. 180. 180. 180. 180. 180. 180.
G1 FLAG 13 21*1.
G1 ELEV 14 195. 180. 180. 180. 180. 180. 180. 175. 140. 175. 180.
G1 ELEV 14 180. 180. 180. 180. 180. 185. 185. 180. 180. 180.
G1 FLAG 14 21*1.
G1 ELEV 15 190. 185. 180. 180. 180. 180. 180. 170. 170. 180. 180.
G1 ELEV 15 180. 180. 180. 180. 180. 185. 185. 180. 180. 180.
G1 FLAG 15 21*1.
G1 ELEV 16 190. 185. 185. 185. 185. 185. 180. 145. 180. 185. 185.
G1 ELEV 16 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
G1 FLAG 16 21*1.
G1 ELEV 17 190. 185. 185. 185. 185. 185. 180. 130. 180. 185. 185.
G1 ELEV 17 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
G1 FLAG 17 21*1.
G1 ELEV 18 190. 190. 185. 185. 185. 185. 180. 130. 175. 185. 185.
G1 ELEV 18 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
G1 FLAG 18 21*1.
G1 ELEV 19 190. 190. 185. 185. 185. 185. 185. 180. 180. 185. 185.
G1 ELEV 19 185. 185. 185. 185. 185. 190. 190. 185. 185. 185.
G1 FLAG 19 21*1.
G1 ELEV 20 190. 190. 190. 190. 190. 190. 185. 140. 160. 185. 185.
G1 ELEV 20 185. 185. 185. 185. 185. 190. 190. 185. 190. 190.
G1 FLAG 20 21*1.
G1 ELEV 21 190. 190. 190. 190. 190. 190. 150. 140. 180. 185. 190.
G1 ELEV 21 190. 190. 190. 190. 190. 190. 190. 190. 190. 190.
G1 FLAG 21 21*1.
G1 ELEV 22 185. 185. 185. 185. 185. 150. 130. 165. 185. 190. 190.
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            G1 ELEV 22 190. 190. 190. 190. 190. 190. 190. 190. 190. 190.
            G1 FLAG 22 21*1.
            G1 ELEV 23 185. 185. 185. 185. 185. 185. 170. 170. 190. 190. 190.
            G1 ELEV 23 190. 190. 190. 190. 190. 195. 195. 190. 190. 190.
            G1 FLAG 23 21*1.
            G1 ELEV 24 185. 185. 185. 185. 185. 185. 185. 185. 190. 190. 190.
            G1 ELEV 24 190. 190. 190. 195. 195. 195. 195. 190. 190. 190.
            G1 FLAG 24 21*1.
            G1 ELEV 25 185. 185. 185. 185. 185. 185. 185. 185. 190. 195. 195.
            G1 ELEV 25 195. 195. 195. 195. 195. 195. 195. 195. 195. 195.
            G1 FLAG 25 21*1.
            G1 ELEV 26 185. 185. 185. 185. 185. 185. 185. 185. 195. 195. 195.
            G1 ELEV 26 195. 195. 195. 195. 195. 200. 200. 195. 195. 195.
            G1 FLAG 26 21*1.

RE GRIDCART G1 END

RE FINISHED


ME STARTING
   INPUTFIL  91ATSRAN.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  12345 1991
   UAIRDATA  12345 1991
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED

************************************
*** SETUP Finishes Successfully ***
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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
ATSUG1	0	.10000E+01	-18.0	66.0	38.1	18.30	477.00	2.74	1.20	YES	
ATSUG2	0	.10000E+01	3.0	80.6	38.1	18.30	477.00	3.96	1.00	YES	
ATSUG3	0	.10000E+01	-8.0	57.1	38.1	13.70	477.00	5.28	.75	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	ATSUG1 , ATSUG2 , ATSUG3 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: ATSUG1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	13.7,	15.0,	0	2	13.7,	15.0,	0	3	13.7,	15.0,	0	4	13.7,	15.0,	0	5	13.7,	15.0,	0	6	13.7,	15.0,	0
7	13.7,	15.0,	0	8	13.7,	15.0,	0	9	13.7,	15.0,	0	10	13.7,	15.0,	0	11	13.7,	15.0,	0	12	13.7,	15.0,	0
13	13.7,	15.0,	0	14	13.7,	15.0,	0	15	13.7,	15.0,	0	16	13.7,	15.0,	0	17	13.7,	15.0,	0	18	13.7,	15.0,	0
19	13.7,	15.0,	0	20	13.7,	15.0,	0	21	13.7,	15.0,	0	22	13.7,	15.0,	0	23	13.7,	15.0,	0	24	13.7,	15.0,	0
25	13.7,	15.0,	0	26	13.7,	15.0,	0	27	13.7,	15.0,	0	28	13.7,	15.0,	0	29	13.7,	15.0,	0	30	13.7,	15.0,	0
31	13.7,	15.0,	0	32	13.7,	15.0,	0	33	13.7,	15.0,	0	34	13.7,	15.0,	0	35	13.7,	15.0,	0	36	13.7,	15.0,	0

SOURCE ID: ATSUG2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	9.1,	23.0,	0	2	9.1,	23.0,	0	3	9.1,	23.0,	0	4	9.1,	23.0,	0	5	9.1,	23.0,	0	6	9.1,	23.0,	0
7	9.1,	23.0,	0	8	9.1,	23.0,	0	9	9.1,	23.0,	0	10	9.1,	23.0,	0	11	9.1,	23.0,	0	12	9.1,	23.0,	0
13	9.1,	23.0,	0	14	9.1,	23.0,	0	15	9.1,	23.0,	0	16	9.1,	23.0,	0	17	9.1,	23.0,	0	18	9.1,	23.0,	0
19	9.1,	23.0,	0	20	9.1,	23.0,	0	21	9.1,	23.0,	0	22	9.1,	23.0,	0	23	9.1,	23.0,	0	24	9.1,	23.0,	0
25	9.1,	23.0,	0	26	9.1,	23.0,	0	27	9.1,	23.0,	0	28	9.1,	23.0,	0	29	9.1,	23.0,	0	30	9.1,	23.0,	0
31	9.1,	23.0,	0	32	9.1,	23.0,	0	33	9.1,	23.0,	0	34	9.1,	23.0,	0	35	9.1,	23.0,	0	36	9.1,	23.0,	0

SOURCE ID: ATSUG3

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	9.1,	23.0,	0	2	9.1,	23.0,	0	3	9.1,	23.0,	0	4	9.1,	23.0,	0	5	9.1,	23.0,	0	6	9.1,	23.0,	0
7	9.1,	23.0,	0	8	9.1,	23.0,	0	9	9.1,	23.0,	0	10	9.1,	23.0,	0	11	9.1,	23.0,	0	12	9.1,	23.0,	0
13	9.1,	23.0,	0	14	9.1,	23.0,	0	15	9.1,	23.0,	0	16	9.1,	23.0,	0	17	9.1,	23.0,	0	18	9.1,	23.0,	0
19	9.1,	23.0,	0	20	9.1,	23.0,	0	21	9.1,	23.0,	0	22	9.1,	23.0,	0	23	9.1,	23.0,	0	24	9.1,	23.0,	0
25	9.1,	23.0,	0	26	9.1,	23.0,	0	27	9.1,	23.0,	0	28	9.1,	23.0,	0	29	9.1,	23.0,	0	30	9.1,	23.0,	0
31	9.1,	23.0,	0	32	9.1,	23.0,	0	33	9.1,	23.0,	0	34	9.1,	23.0,	0	35	9.1,	23.0,	0	36	9.1,	23.0,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

-1000.0,	-900.0,	-800.0,	-700.0,	-600.0,	-500.0,	-400.0,	-300.0,	-200.0,	-100.0,
.0,	100.0,	200.0,	300.0,	400.0,	500.0,	600.0,	700.0,	800.0,	900.0,
1000.0,									

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

-600.0,	-500.0,	-400.0,	-300.0,	-200.0,	-100.0,	.0,	100.0,	200.0,	300.0,
400.0,	500.0,	600.0,	700.0,	800.0,	900.0,	1000.0,	1100.0,	1200.0,	1300.0,
1400.0,	1500.0,	1600.0,	1700.0,	1800.0,	1900.0,				

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	59.44
1800.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91
1700.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91
1600.00	56.39	56.39	56.39	56.39	56.39	56.39	51.82	51.82	57.91
1500.00	56.39	56.39	56.39	56.39	56.39	45.72	39.62	50.29	56.39
1400.00	57.91	57.91	57.91	57.91	57.91	57.91	45.72	42.67	54.86
1300.00	57.91	57.91	57.91	57.91	57.91	57.91	56.39	42.67	48.77
1200.00	57.91	57.91	56.39	56.39	56.39	56.39	56.39	54.86	54.86
1100.00	57.91	57.91	56.39	56.39	56.39	56.39	54.86	39.62	53.34
1000.00	57.91	56.39	56.39	56.39	56.39	56.39	54.86	39.62	54.86
900.00	57.91	56.39	56.39	56.39	56.39	56.39	54.86	44.20	54.86
800.00	57.91	56.39	54.86	54.86	54.86	54.86	54.86	51.82	51.82
700.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	53.34	42.67
600.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	54.86	39.62
500.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	54.86	39.62
400.00	57.91	54.86	53.34	53.34	53.34	53.34	53.34	51.82	45.72
300.00	51.82	51.82	53.34	53.34	53.34	53.34	53.34	53.34	48.77
200.00	51.82	51.82	53.34	53.34	51.82	51.82	51.82	51.82	51.82
100.00	51.82	51.82	53.34	53.34	51.82	51.82	51.82	51.82	53.34
.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-100.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-200.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-300.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-400.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-500.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-600.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	59.44	59.44	59.44	59.44	59.44	59.44	59.44	60.96	60.96
1800.00	59.44	59.44	59.44	59.44	59.44	59.44	59.44	59.44	59.44
1700.00	57.91	57.91	57.91	57.91	57.91	59.44	59.44	59.44	59.44
1600.00	57.91	57.91	57.91	57.91	57.91	57.91	57.91	59.44	59.44
1500.00	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91
1400.00	56.39	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91
1300.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91	57.91
1200.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91	57.91
1100.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
1000.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
900.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
800.00	54.86	54.86	54.86	54.86	54.86	54.86	54.86	56.39	56.39
700.00	53.34	54.86	54.86	54.86	54.86	54.86	54.86	56.39	56.39
600.00	48.77	54.86	54.86	54.86	54.86	54.86	54.86	54.86	54.86
500.00	48.77	53.34	53.34	54.86	54.86	54.86	54.86	54.86	54.86
400.00	45.72	51.82	53.34	53.34	53.34	53.34	53.34	54.86	54.86
300.00	44.20	42.67	51.82	53.34	53.34	53.34	53.34	54.86	54.86
200.00	48.77	38.10	48.77	51.82	53.34	53.34	53.34	53.34	53.34
100.00	51.82	39.62	42.67	51.82	53.34	53.34	53.34	53.34	53.34
.00	51.82	41.15	41.15	51.82	51.82	51.82	51.82	53.34	53.34
-100.00	51.82	42.67	39.62	48.77	51.82	50.29	51.82	51.82	51.82
-200.00	51.82	51.82	38.10	42.67	48.77	50.29	50.29	51.82	51.82
-300.00	51.82	51.82	38.10	38.10	48.77	50.29	50.29	50.29	50.29
-400.00	51.82	51.82	44.20	38.10	45.72	48.77	48.77	50.29	50.29
-500.00	51.82	51.82	45.72	35.05	41.15	48.77	47.24	48.77	50.29
-600.00	51.82	48.77	45.72	38.10	38.10	45.72	47.24	48.77	48.77

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	59.44	59.44	59.44
1800.00	59.44	59.44	59.44
1700.00	57.91	57.91	57.91
1600.00	57.91	57.91	57.91
1500.00	57.91	57.91	57.91
1400.00	57.91	57.91	57.91
1300.00	56.39	57.91	57.91
1200.00	56.39	56.39	56.39
1100.00	56.39	56.39	56.39
1000.00	56.39	56.39	56.39
900.00	56.39	56.39	56.39
800.00	54.86	54.86	54.86
700.00	54.86	54.86	54.86
600.00	54.86	54.86	54.86
500.00	54.86	54.86	54.86
400.00	53.34	53.34	53.34
300.00	53.34	53.34	53.34
200.00	53.34	53.34	53.34
100.00	53.34	53.34	53.34
.00	51.82	51.82	51.82
-100.00	51.82	51.82	51.82
-200.00	51.82	51.82	50.29
-300.00	50.29	50.29	50.29
-400.00	48.77	48.77	48.77
-500.00	48.77	48.77	48.77
-600.00	48.77	48.77	48.77

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00
.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

* SOURCE-RECEPTOR COMBINATIONS LESS THAN 1.0 METER OR 3*ZLB *
IN DISTANCE. CALCULATIONS MAY NOT BE PERFORMED.

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
ATSUG1	.0	100.0	38.47
ATSUG2	.0	100.0	19.63

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

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

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

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

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

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

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

FILE: 91ATSRAN.MET FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1)
SURFACE STATION NO.: 12345 UPPER AIR STATION NO.: 12345
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1991 YEAR: 1991

YEAR	MONTH	DAY	HOUR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN
91	1	1	1	15.0	1.54	279.2	6	500.0	500.0
91	1	1	2	.6	2.06	279.2	6	500.0	500.0
91	1	1	3	26.9	1.54	279.2	6	500.0	500.0
91	1	1	4	13.1	1.03	279.2	6	500.0	500.0
91	1	1	5	10.8	2.57	279.2	6	500.0	500.0
91	1	1	6	9.8	2.57	279.2	6	500.0	500.0
91	1	1	7	18.5	2.06	279.2	5	500.0	500.0
91	1	1	8	54.0	2.06	279.2	5	500.0	500.0
91	1	1	9	33.2	2.06	279.2	4	500.0	500.0
91	1	1	10	22.5	3.09	279.2	4	500.0	500.0
91	1	1	11	36.7	3.09	279.2	3	500.0	500.0
91	1	1	12	33.6	2.06	279.2	3	500.0	500.0
91	1	1	13	32.1	3.09	279.2	2	500.0	500.0
91	1	1	14	20.1	4.63	278.2	2	500.0	500.0
91	1	1	15	18.0	5.66	278.2	3	500.0	500.0
91	1	1	16	5.1	5.66	277.2	4	500.0	500.0
91	1	1	17	15.9	6.69	278.2	4	500.0	500.0
91	1	1	18	358.6	6.69	280.2	4	500.0	500.0
91	1	1	19	356.5	6.18	280.2	4	500.0	500.0
91	1	1	20	356.7	6.18	280.2	4	500.0	500.0
91	1	1	21	4.9	5.66	280.2	4	500.0	500.0
91	1	1	22	349.5	3.60	281.2	5	500.0	500.0
91	1	1	23	6.2	3.09	280.2	6	500.0	500.0
91	1	1	24	45.0	2.57	279.2	6	500.0	500.0

*** 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.

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	.85642	1.12731	1.23988	1.33622	1.79798	2.27787	2.94101	3.15150	3.98842
1800.00	.86805	1.03444	1.31757	1.33012	1.75079	2.27887	3.00445	3.38118	4.05537
1700.00	.94052	.96671	1.29501	1.41152	1.67071	2.27657	3.02726	3.62623	4.14794
1600.00	.99400	.99933	1.17972	1.51717	1.60521	2.25317	2.80276	3.59606	4.29453
1500.00	.94303	1.08717	1.10541	1.50955	1.64504	1.63394	1.83165	3.62159	4.50675
1400.00	.79252	1.10065	1.17131	1.36784	1.77984	2.06806	2.25569	2.90548	4.70323
1300.00	.75185	.95449	1.25949	1.29443	1.80949	2.01716	2.97537	2.91569	4.40179
1200.00	.79477	.83261	1.17517	1.40494	1.62127	2.13939	2.85301	4.23237	5.58592
1100.00	.76230	.89247	.96336	1.42845	1.55635	2.21304	2.59370	2.43692	5.95805
1000.00	.80856	.85064	.99711	1.17710	1.69486	1.97274	2.59411	2.30749	6.65663
900.00	.74817	.89051	.95558	1.12596	1.52364	1.94472	2.71613	2.62498	6.99946
800.00	.76494	.83187	.94896	1.04188	1.23145	1.91145	2.39878	3.30839	6.45793
700.00	.61548	.79691	.89506	1.07041	1.21724	1.48533	2.40326	3.51861	4.14809
600.00	.58014	.60055	.83145	1.02331	1.22536	1.46466	2.04984	3.25748	3.23060
500.00	.59552	.64332	.67497	.82529	1.18162	1.44511	1.85644	3.18215	2.76629
400.00	.54346	.63158	.66578	.76864	.83652	1.25465	1.65532	2.19562	3.08237
300.00	.31322	.32819	.45070	.69190	.86785	1.05829	1.31621	2.16927	2.65594
200.00	.30646	.35544	.43866	.50237	.51224	.62446	1.12623	1.63241	2.90266
100.00	.49638	.52712	.59988	.64246	.63931	.69715	.79929	1.05240	1.79764
.00	.30942	.31730	.32640	.34192	.37135	.43127	.54530	.89046	2.45055
-100.00	.23745	.25356	.28829	.37985	.64009	.99667	1.26644	1.90426	5.42479
-200.00	.36051	.53158	.67479	.70927	.87057	1.03899	1.54589	3.32705	7.25011
-300.00	.53667	.54273	.68378	.75535	.89388	1.34846	2.34281	4.27657	5.50293
-400.00	.56623	.60784	.65690	.80926	1.18586	1.80385	2.96916	3.70616	4.78291
-500.00	.52800	.60793	.74827	1.04242	1.47208	2.27579	2.71887	2.97892	4.55588
-600.00	.55441	.70562	.90625	1.23993	1.86046	2.16225	2.37120	2.63429	4.39770

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	6.62184	7.23690	6.29145	4.72827	4.03117	3.80257	3.41735	3.00265	2.90407
1800.00	6.92779	7.70033	6.60929	4.92157	4.28309	4.01713	3.52032	3.17573	3.04060
1700.00	7.24577	8.21685	6.94908	5.14428	4.56439	4.22128	3.63200	3.39543	3.08348
1600.00	7.58988	8.81473	7.32843	5.42254	4.89146	4.41850	3.79588	3.61039	2.99255
1500.00	7.93382	9.48152	7.73155	5.76148	5.25558	4.60156	4.05491	3.73247	2.86004
1400.00	8.31667	10.29201	8.20276	6.19640	5.65924	4.79854	4.38155	3.66283	2.82739
1300.00	8.66170	11.16582	8.67819	6.69834	6.04963	5.05978	4.64867	3.49464	2.83192
1200.00	9.03159	12.22524	9.24412	7.32434	6.41645	5.46736	4.63237	3.43891	2.75684
1100.00	9.41182	13.48833	9.91224	8.08264	6.78074	5.95502	4.39372	3.41287	2.60288
1000.00	9.82850	15.02050	10.74335	8.96364	7.25994	6.14022	4.31695	3.25878	2.49429
900.00	10.33504	16.91037	11.82156	9.94050	8.04038	5.82566	4.22977	3.06848	2.50952
800.00	10.64747	18.39463	12.82403	10.43871	8.34828	5.50726	3.84680	3.03147	2.61223
700.00	11.50917	21.52336	14.99620	11.60142	8.03975	5.23842	3.68014	3.18675	2.30737
600.00	11.31979	25.81998	18.00662	13.27891	7.80735	4.91410	3.87702	2.73620	2.33688
500.00	13.08178	30.69205	21.27785	13.46855	7.26477	5.18028	3.50244	2.81747	2.07367
400.00	11.56233	38.58968	26.36294	12.40119	7.25913	4.58469	3.34106	2.44213	1.96121
300.00	8.66071	29.57970	29.05337	12.25950	6.81064	4.18043	2.96332	2.21935	1.59173
200.00	8.17329	25.45032	22.05534	10.46938	5.74110	3.23773	1.92385	1.38926	1.10520
100.00	6.51020	18.08594	6.24301	5.96200	3.79279	2.66058	2.00066	1.57935	1.29001
.00	12.40892	14.27104	3.19753	5.78327	4.27425	3.04172	2.29916	1.88778	1.51976
-100.00	16.84321	14.34982	2.32625	3.81839	2.66688	1.98006	1.70798	1.75461	1.66180
-200.00	13.30299	16.56216	2.06066	1.82454	2.22673	1.99032	1.26344	1.18603	1.04620
-300.00	11.30041	11.26754	2.01179	1.18549	1.66927	1.62993	1.65629	1.19497	.80593
-400.00	8.88119	8.33273	2.45939	1.00891	1.28426	1.23273	1.14346	1.38117	1.07294
-500.00	6.93704	6.56424	2.44009	.82507	.81533	1.19303	.90875	.92481	1.10537
-600.00	5.54959	4.77156	2.25366	.89432	.61500	.81978	.87587	.82234	.78030

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	2.59436	2.06844	1.80439
1800.00	2.50997	2.05118	1.80532
1700.00	2.41123	2.06691	1.76914
1600.00	2.38583	2.05510	1.69794
1500.00	2.39598	1.98917	1.62808
1400.00	2.36079	1.89529	1.58373
1300.00	2.25840	1.82666	1.56410
1200.00	2.15399	1.79318	1.62948
1100.00	2.09557	1.85553	1.64863
1000.00	2.13419	1.89287	1.46319
900.00	2.20011	1.66822	1.49598
800.00	1.89231	1.68319	1.48368
700.00	1.96672	1.68476	1.34486
600.00	1.89571	1.42947	1.24165
500.00	1.66760	1.42535	1.22253
400.00	1.55084	1.23496	.98636
300.00	1.10791	.82581	.68760
200.00	.92090	.80454	.72985
100.00	1.08745	.93917	.82310
.00	1.21076	1.03248	.89633
-100.00	1.45563	1.27146	1.12637
-200.00	.92241	.97487	.98182
-300.00	.74434	.72725	.63791
-400.00	.76249	.55386	.51822
-500.00	.93299	.74170	.56149
-600.00	.82736	.88376	.68734

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00
1900.0	237.14250 (91100404)	253.03740 (91100205)	254.82060 (91121720)	237.88010 (91062102)	249.34120 (91101502)
1800.0	257.03530 (91080118)	256.57910 (91040506)	263.10520 (91052104)	246.21560 (91072806)	266.72300 (91122020)
1700.0	252.91210 (91101805)	261.86130 (91100404)	271.08330 (91100205)	270.74370 (91072806)	278.68840 (91062102)
1600.0	231.44940 (91101501)	263.04340 (91080118)	273.40070 (91040506)	277.72480 (91052105)	235.84590 (91062102)
1500.0	272.71640 (91082605)	255.95630 (91090923)	285.99260 (91100404)	289.24710 (91100205)	297.04400 (91072806)
1400.0	274.96240 (91120404)	269.17140 (91030703)	294.46980 (91101805)	292.50960 (91040506)	303.52790 (91052105)
1300.0	259.79270 (91101424)	297.08450 (91072303)	275.08910 (91032323)	307.25940 (91100404)	313.11430 (91082606)
1200.0	272.66930 (91030401)	278.96470 (91121724)	313.73220 (91082605)	305.88240 (91101805)	312.90590 (91040506)
1100.0	304.64700 (91102901)	306.37470 (91030401)	290.47570 (91101702)	311.59480 (91072102)	336.58850 (91080118)
1000.0	314.42540 (91060802)	320.44320 (91102901)	322.99740 (91030401)	330.29040 (91120404)	333.66060 (91090923)
900.0	315.43620 (91020908)	323.73700 (91060802)	333.47380 (91111404)	337.05770 (91092203)	349.33910 (91082605)
800.0	309.95770 (91102922)	326.49630 (91020908)	302.54330 (91060802)	315.35280 (91111404)	332.54910 (91101424)
700.0	291.89800 (91030122)	308.72350 (91041522)	306.14420 (91071202)	320.88850 (91101903)	320.26210 (91040905)
600.0	337.63110 (91111319)	293.93180 (91030122)	322.56950 (91101704)	335.30920 (91060904)	356.34630 (91032924)
500.0	342.56060 (91101904)	325.01200 (91122622)	340.91660 (91021116)	344.74330 (91030122)	374.85930 (91022621)
400.0	348.22550 (91052103)	319.25660 (91072201)	307.89760 (91063001)	340.64820 (91061102)	365.06550 (91072602)
300.0	244.15010 (91041605)	288.49930 (91110907)	332.36290 (91082604)	354.33660 (91061523)	381.07880 (91063001)
200.0	280.99260 (91060604)	294.31250 (91071224)	326.47210 (91101919)	327.09090 (91050106)	290.15830 (91072723)
100.0	261.68430 (91042003)	281.36990 (91090306)	332.85190 (91090306)	357.73720 (91090306)	342.95320 (91011020)
.0	276.66030 (91072603)	301.04590 (91072603)	311.43430 (91072603)	309.06890 (91012804)	325.03030 (91012804)
-100.0	265.60820 (91080123)	290.65150 (91122908)	306.83360 (91061802)	312.96260 (91032417)	370.08990 (91102724)
-200.0	266.32250 (91102724)	291.68030 (91071301)	303.34850 (91022307)	331.07200 (91031219)	366.28200 (91072323)
-300.0	281.78030 (91082203)	287.18380 (91072802)	306.88480 (91062721)	320.77760 (91062701)	326.88160 (91070601)
-400.0	271.05150 (91060221)	279.61210 (91062701)	288.17070 (91092422)	295.33290 (91070403)	327.19960 (91080306)
-500.0	269.62630 (91082205)	278.63480 (91080303)	263.47690 (91090405)	299.63990 (91060220)	316.42220 (91032418)
-600.0	253.10930 (91070403)	273.13660 (91090405)	275.98500 (91101917)	286.01480 (91032418)	305.02830 (91072522)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -500.00	-400.00	-300.00	-200.00	-100.00
1900.0	261.74680 (91010201)	264.43900 (91102801)	253.87350 (91020208)	236.10840 (91092902)	272.82580 (91072701)
1800.0	258.42290 (91120823)	260.04170 (91020408)	244.36470 (91092221)	250.29280 (91092902)	281.93790 (91072701)
1700.0	273.45820 (91120823)	254.35740 (91050301)	257.02530 (91120719)	267.50100 (91012006)	289.62180 (91082306)
1600.0	268.11710 (91101502)	219.59290 (91010201)	224.36000 (91032324)	289.01790 (91012006)	300.94220 (91082306)
1500.0	154.20130 (91122020)	98.01941 (91070104)	217.01090 (91102801)	298.29400 (91012006)	308.87550 (91061123)
1400.0	305.17690 (91062102)	160.42950 (91101504)	128.12000 (91060801)	285.46530 (91020208)	320.12920 (91070902)
1300.0	290.73430 (91072806)	302.15770 (91103104)	133.56610 (91061423)	206.66360 (91051406)	332.13660 (91070902)
1200.0	325.68150 (91121720)	328.19080 (91122020)	287.55140 (91010201)	303.63620 (91092221)	335.95750 (91103024)
1100.0	338.71020 (91082606)	295.55350 (91062102)	107.68220 (91070104)	293.89400 (91120719)	349.98880 (91062002)
1000.0	338.86040 (91120523)	323.69960 (91072806)	107.85120 (91080206)	332.07420 (91082602)	360.26980 (91120324)
900.0	345.74770 (91101805)	330.43780 (91101506)	156.06250 (91012218)	342.62870 (91101906)	380.82240 (91092902)
800.0	349.60610 (91072102)	350.85300 (91120523)	310.86300 (91122019)	302.43390 (91030506)	374.26650 (91101821)
700.0	343.71620 (91101702)	373.30840 (91102602)	360.51780 (91050306)	158.98070 (91122405)	375.39910 (91010705)
600.0	369.14650 (91051504)	386.12630 (91112121)	411.73820 (91122921)	160.16290 (91110909)	278.52090 (91110323)
500.0	392.38460 (91032924)	423.85390 (91040704)	462.10190 (91101401)	176.08800 (91091617)	312.87950 (91091205)
400.0	397.00420 (91012217)	441.33650 (91080323)	426.98140 (91102022)	274.66340 (91091411)	297.27990 (91091611)
300.0	423.19930 (91061102)	451.50610 (91122623)	528.16870 (91091202)	398.54500 (91060305)	320.60210 (91091703)
200.0	380.96450 (91110907)	451.17990 (91061523)	519.77150 (91061102)	604.00090 (91022621)	757.97970 (91112601)
100.0	360.31840 (91011020)	427.36010 (91102720)	506.84840 (91022103)	762.71950 (91050106)	2307.34000 (91052005)
.0	361.94150 (91080123)	446.23300 (91080123)	530.25030 (91032417)	666.75940 (91032416)	1711.34600 (91040324)
-100.0	389.58590 (91022307)	427.47600 (91022404)	433.11680 (91070402)	587.62400 (91072124)	737.56400 (91032023)
-200.0	394.43610 (91070402)	402.40420 (91050522)	457.51350 (91080920)	496.75890 (91082903)	524.47590 (91071706)
-300.0	372.55760 (91051324)	387.69090 (91032418)	433.81140 (91081120)	444.64500 (91061702)	472.54020 (91072524)
-400.0	350.83050 (91032418)	350.68450 (91031506)	390.62430 (91063019)	384.02930 (91071601)	420.78360 (91082206)
-500.0	333.52860 (91103017)	325.93660 (91082201)	360.22470 (91061702)	348.37900 (91071706)	358.01740 (91062321)
-600.0	305.41700 (91050624)	326.60090 (91100223)	318.04860 (91090404)	320.19210 (91072503)	346.39020 (91122418)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) .00	100.00	200.00	300.00	400.00
1900.0	271.35550 (91070703)	273.87800 (91072601)	246.01270 (91092703)	262.69510 (91020108)	243.94420 (91062123)
1800.0	279.77940 (91070703)	280.56530 (91061122)	271.33050 (91092703)	269.72830 (91020108)	275.60670 (91062123)
1700.0	288.37580 (91070703)	289.34520 (91061122)	287.06950 (91092703)	288.33570 (91072605)	285.73240 (91081205)
1600.0	298.66390 (91070703)	294.84460 (91022804)	288.18760 (91092703)	293.32130 (91101807)	293.56010 (91072805)
1500.0	307.51630 (91070703)	307.03620 (91060423)	281.62620 (91070903)	291.42810 (91012524)	275.49370 (91111218)
1400.0	319.81500 (91070703)	316.24460 (91121320)	292.15440 (91030405)	314.68660 (91062123)	312.55580 (91041624)
1300.0	328.57880 (91070703)	329.89930 (91100207)	322.56870 (91020108)	328.96100 (91081205)	294.01280 (91120601)
1200.0	339.06840 (91072023)	339.30110 (91052106)	340.60090 (91072605)	329.68940 (91010317)	325.07790 (91010404)
1100.0	350.57390 (91072023)	346.49260 (91072604)	344.98640 (91101807)	339.14940 (91030323)	333.92050 (91051901)
1000.0	369.37330 (91071121)	361.46350 (91072604)	354.05500 (91010104)	346.09400 (91120601)	329.28270 (91062906)
900.0	389.22070 (91071121)	383.16020 (91070903)	366.40230 (91081205)	373.70660 (91062903)	348.49360 (91101824)
800.0	385.84070 (91063024)	379.88460 (91051405)	370.92930 (91121507)	366.22270 (91062906)	356.77620 (91072203)
700.0	419.91030 (91063024)	416.95680 (91092922)	411.13820 (91062021)	393.93360 (91092704)	378.32670 (91051806)
600.0	464.35970 (91070202)	450.45710 (91042902)	450.25940 (91082801)	430.91230 (91112820)	402.51610 (91011824)
500.0	476.26080 (91070202)	465.48820 (91050524)	496.50510 (91092704)	451.36170 (91112602)	438.99430 (91021205)
400.0	493.77390 (91080821)	525.04250 (91121707)	500.48170 (91031719)	465.05170 (91021205)	436.61930 (91062501)
300.0	316.99090 (91081123)	550.39030 (91070306)	572.23880 (91020418)	489.77350 (91090202)	460.00430 (91110918)
200.0	269.88540 (91092901)	676.97980 (91062122)	553.33300 (91020921)	554.71500 (91092705)	467.82450 (91102121)
100.0	237.52930 (91110422)	532.49980 (91080406)	604.71450 (91080404)	573.81710 (91101617)	482.58330 (91082019)
.0	602.39100 (91030217)	397.15050 (91061404)	613.75740 (91101814)	497.57750 (91070923)	414.41700 (91111519)
-100.0	371.10820 (91071923)	241.93390 (91021317)	423.71630 (91111115)	477.36640 (91120417)	342.38770 (91122017)
-200.0	549.59230 (91062718)	174.74520 (91122315)	252.69180 (91032413)	320.00750 (91061824)	342.99480 (91082521)
-300.0	474.31460 (91082621)	160.64800 (91042622)	158.01930 (91021214)	297.10550 (91070506)	331.38080 (91110416)
-400.0	413.24120 (91030619)	185.17250 (91072418)	151.94820 (91092708)	207.29300 (91041923)	273.16750 (91061121)
-500.0	379.76380 (91091219)	204.20720 (91061903)	96.52711 (91010409)	130.50360 (91021214)	263.96980 (91082101)
-600.0	274.00130 (91091219)	205.35090 (91090121)	92.63078 (91083122)	132.39930 (91092708)	189.33570 (91072020)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 500.00	600.00	700.00	800.00	900.00
1900.0	255.03890 (91010317)	222.78370 (91120601)	228.15530 (91111517)	238.80490 (91010406)	247.58220 (91101824)
1800.0	257.98660 (91030323)	264.17500 (91010404)	267.53240 (91051901)	260.37330 (91033006)	240.95770 (91092904)
1700.0	280.56340 (91041624)	250.23250 (91010404)	256.51910 (91123003)	264.96630 (91101824)	269.80470 (91091118)
1600.0	253.66110 (91120601)	278.59470 (91051901)	273.73120 (91010406)	249.56800 (91092904)	268.48570 (91010205)
1500.0	295.53750 (91010404)	288.74420 (91123003)	283.49830 (91101824)	281.19710 (91091118)	259.89610 (91040604)
1400.0	287.41300 (91062903)	299.70790 (91010406)	274.55560 (91110406)	293.55040 (91051803)	259.42960 (91020705)
1300.0	316.25680 (91051901)	307.93460 (91101824)	277.36690 (91091118)	276.11550 (91120603)	299.33450 (91092920)
1200.0	322.54390 (91010406)	308.55350 (91072606)	311.16390 (91040604)	278.25270 (91112405)	280.05560 (91121617)
1100.0	328.75630 (91101824)	322.56830 (91010205)	308.13770 (91020705)	319.71080 (91030920)	309.08330 (91040824)
1000.0	347.08470 (91091118)	326.26670 (91120603)	331.32720 (91031702)	329.38170 (91040824)	296.43660 (91011707)
900.0	359.34880 (91052302)	347.11310 (91092920)	331.41650 (91040824)	319.13350 (91011707)	291.49260 (91070503)
800.0	342.56790 (91112405)	363.94720 (91061522)	344.49950 (91011707)	273.56420 (91020203)	300.57360 (91050702)
700.0	360.37730 (91112807)	372.12770 (91011707)	338.43250 (91020203)	319.59610 (91112318)	311.49060 (91032318)
600.0	385.75890 (91082017)	364.08220 (91053118)	336.52190 (91120901)	327.65030 (91123017)	250.25810 (91110918)
500.0	412.60110 (91053120)	388.75850 (91062520)	339.34690 (91082106)	339.47760 (91040901)	312.62420 (91071821)
400.0	356.46660 (91062904)	406.16590 (91082103)	367.89220 (91071821)	301.93900 (91120220)	298.90720 (91110719)
300.0	425.01940 (91091123)	389.96190 (91120220)	353.26220 (91102121)	303.70650 (91021418)	203.90070 (91110819)
200.0	314.23720 (91080406)	380.06900 (91052003)	317.35680 (91052003)	332.30340 (91090401)	309.88310 (91110417)
100.0	439.74510 (91082019)	368.47320 (91101416)	357.15210 (91101416)	334.60390 (91101416)	308.44010 (91101416)
.0	387.93300 (91101616)	383.81880 (91111618)	353.48260 (91111618)	286.90550 (91011801)	286.43060 (91011801)
-100.0	349.62150 (91092917)	342.66820 (91040903)	333.76260 (91072703)	297.93800 (91042120)	287.65070 (91110620)
-200.0	327.65350 (91071005)	342.08790 (91031001)	307.98540 (91032922)	266.30500 (91092917)	253.64360 (91013016)
-300.0	315.04770 (91062518)	298.65910 (91090421)	281.19760 (91071005)	244.18700 (91031001)	241.57140 (91022018)
-400.0	232.69640 (91071101)	284.22310 (91071006)	272.85610 (91082521)	230.06050 (91082522)	222.39110 (91071005)
-500.0	226.68710 (91062819)	231.46630 (91071101)	253.20990 (91072321)	226.81530 (91062518)	215.74420 (91083119)
-600.0	201.56810 (91092918)	232.70140 (91062819)	224.29470 (91061823)	194.84490 (91092318)	211.62250 (91071804)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 1000.00
1900.0	250.92670 (91091118)
1800.0	232.70530 (91010205)
1700.0	262.26490 (91040604)
1600.0	238.73420 (91120603)
1500.0	247.40300 (91112405)
1400.0	277.86720 (91031702)
1300.0	263.88790 (91061522)
1200.0	278.24480 (91040824)
1100.0	274.53130 (91011707)
1000.0	285.41480 (91070503)
900.0	317.28350 (91103018)
800.0	254.32660 (91062520)
700.0	306.66870 (91040601)
600.0	301.51940 (91040901)
500.0	313.42190 (91110917)
400.0	254.68350 (91051921)
300.0	280.81360 (91121202)
200.0	258.76530 (91110417)
100.0	282.29260 (91101416)
.0	273.41930 (91011801)
-100.0	282.29640 (91082104)
-200.0	245.56640 (91062521)
-300.0	236.19210 (91032922)
-400.0	182.67710 (91041002)
-500.0	209.00610 (91062523)
-600.0	202.07600 (91082521)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE
1.	2307.34000	(91052005)	AT (	-100.00,	100.00)	GC	26.	1147.95700	(91031920)	AT (	-100.00,	.00)	GC
2.	2204.53000	(91011019)	AT (	-100.00,	100.00)	GC	27.	1141.38000	(91080306)	AT (	-100.00,	.00)	GC
3.	1850.68100	(91123001)	AT (	-100.00,	100.00)	GC	28.	1138.92000	(91122821)	AT (	-100.00,	.00)	GC
4.	1748.87500	(91031824)	AT (	-100.00,	100.00)	GC	29.	1135.22500	(91022201)	AT (	-100.00,	.00)	GC
5.	1711.34600	(91040324)	AT (	-100.00,	.00)	GC	30.	1110.29600	(91012717)	AT (	-100.00,	.00)	GC
6.	1700.23900	(91063001)	AT (	-100.00,	100.00)	GC	31.	1064.90800	(91060220)	AT (	-100.00,	.00)	GC
7.	1691.10200	(91031521)	AT (	-100.00,	.00)	GC	32.	996.33220	(91091014)	AT (	-100.00,	.00)	GC
8.	1679.41200	(91101322)	AT (	-100.00,	.00)	GC	33.	991.11600	(91121021)	AT (	-100.00,	100.00)	GC
9.	1672.03400	(91091222)	AT (	-100.00,	100.00)	GC	34.	989.31820	(91041501)	AT (	-100.00,	100.00)	GC
10.	1610.40700	(91110319)	AT (	-100.00,	.00)	GC	35.	985.50100	(91021918)	AT (	-100.00,	100.00)	GC
11.	1592.46700	(91090720)	AT (	-100.00,	.00)	GC	36.	965.99210	(91082123)	AT (	-100.00,	.00)	GC
12.	1575.65200	(91070504)	AT (	-100.00,	.00)	GC	37.	944.48490	(91010611)	AT (	-100.00,	.00)	GC
13.	1548.72900	(91071818)	AT (	-100.00,	100.00)	GC	38.	918.70820	(91080919)	AT (	-100.00,	.00)	GC
14.	1536.88400	(91110301)	AT (	-100.00,	100.00)	GC	39.	905.87150	(91082309)	AT (	-100.00,	100.00)	GC
15.	1471.66700	(91091906)	AT (	-100.00,	100.00)	GC	40.	905.41560	(91072123)	AT (	-100.00,	.00)	GC
16.	1441.81900	(91063002)	AT (	-100.00,	100.00)	GC	41.	895.01110	(91021903)	AT (	-100.00,	.00)	GC
17.	1424.99500	(91032001)	AT (	-100.00,	.00)	GC	42.	860.00810	(91061102)	AT (	-100.00,	100.00)	GC
18.	1364.58200	(91081222)	AT (	-100.00,	100.00)	GC	43.	859.97430	(91122913)	AT (	-100.00,	100.00)	GC
19.	1350.38600	(91072201)	AT (	-100.00,	100.00)	GC	44.	856.28660	(91022418)	AT (	-100.00,	.00)	GC
20.	1277.61100	(91101323)	AT (	-100.00,	100.00)	GC	45.	855.00450	(91011718)	AT (	-100.00,	.00)	GC
21.	1275.18000	(91042823)	AT (	-100.00,	.00)	GC	46.	832.42610	(91112823)	AT (	-100.00,	.00)	GC
22.	1253.32400	(91033021)	AT (	-100.00,	.00)	GC	47.	831.70130	(91111920)	AT (	-100.00,	.00)	GC
23.	1235.39100	(91020504)	AT (	-100.00,	100.00)	GC	48.	826.31760	(91022801)	AT (	-100.00,	.00)	GC
24.	1225.45800	(91050806)	AT (	-100.00,	.00)	GC	49.	825.76220	(91021911)	AT (	-100.00,	100.00)	GC
25.	1179.58900	(91101319)	AT (	-100.00,	.00)	GC	50.	818.79180	(91033020)	AT (	-100.00,	.00)	GC

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	38.58968 AT (	.00,	400.00,	51.82,	1.00)	GC	G1
	2ND HIGHEST VALUE IS	30.69205 AT (	.00,	500.00,	53.34,	1.00)	GC	G1
	3RD HIGHEST VALUE IS	29.57970 AT (	.00,	300.00,	42.67,	1.00)	GC	G1
	4TH HIGHEST VALUE IS	29.05337 AT (	100.00,	300.00,	51.82,	1.00)	GC	G1
	5TH HIGHEST VALUE IS	26.36294 AT (	100.00,	400.00,	53.34,	1.00)	GC	G1
	6TH HIGHEST VALUE IS	25.81998 AT (	.00,	600.00,	54.86,	1.00)	GC	G1

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	2307.34000	ON 91052005:	AT (-100.00, 100.00, 51.82, 1.00)	GC	G1

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** Message Summary For ISC2 Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 263 Informational

CASE 6

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** INPUT FILE NAME: NEESAR2.INP **
** 1991 ATSUGI MET. DATA WITH RANDOMIZED WIND DIRECTIONS +/- 5 DEGREES **
** FUGITIVE EMISSIONS FROM STORAGE AND DUST AREAS MODELED AS AREA SOURCE **

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, FUGITIVE EMISS., SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  PERIOD
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   AREA  30.0  -20.0   38.1

**          SOURCE   AREA EMISS.  RELEASE   LENGTH OF SIDE
**       PARAMETERS     RATE      HEIGHT     OF SQ. AREA
** ---------------   ----------  -------   -------------
   SRCPARAM ATSUG1     0.000223     1.00          67.0

   SRCGROUP  ALL
SO FINISHED

RE STARTING

** CARTESIAN GRIDS (100 M. SPACING, -1000/1000 IN X AND -600/1900 IN Y)**
RE GRIDCART G1 STA
           G1 XPNTS  -1000. -900. -800. -700. -600. -500. -400. -300.
           G1 XPNTS  -200. -100. 0. 100. 200. 300. 400. 500. 600.
           G1 XPNTS  700. 800. 900. 1000.
           G1 YPNTS  -600. -500. -400. -300. -200. -100. 0. 100. 200.
           G1 YPNTS  300. 400. 500. 600. 700. 800. 900. 1000. 1100.
           G1 YPNTS  1200. 1300. 1400. 1500. 1600. 1700. 1800. 1900.

           G1 ELEV  1 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 160.
           G1 ELEV  1 150. 125. 125. 150. 155. 160. 160. 160. 160. 160.
           G1 FLAG  1 21*1.
           G1 ELEV  2 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
           G1 ELEV  2 150. 115. 135. 160. 155. 160. 165. 160. 160. 160.
           G1 FLAG  2 21*1.
           G1 ELEV  3 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
           G1 ELEV  3 145. 125. 150. 160. 160. 165. 165. 160. 160. 160.
           G1 FLAG  3 21*1.
           G1 ELEV  4 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
           G1 ELEV  4 125. 125. 160. 165. 165. 165. 165. 165. 165. 165.
           G1 FLAG  4 21*1.
           G1 ELEV  5 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
           G1 ELEV  5 125. 140. 160. 165. 165. 170. 170. 170. 170. 165.
           G1 FLAG  5 21*1.
           G1 ELEV  6 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 140.
           G1 ELEV  6 130. 160. 170. 165. 170. 170. 170. 170. 170. 170.
           G1 FLAG  6 21*1.
           G1 ELEV  7 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 135.
           G1 ELEV  7 135. 170. 170. 170. 170. 175. 175. 170. 170. 170.
           G1 FLAG  7 21*1.
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G1 ELEV  8 170. 170. 175. 175. 170. 170. 170. 170. 175. 170. 130.
G1 ELEV  8 140. 170. 175. 175. 175. 175. 175. 175. 175. 175.
G1 FLAG  8 21*1.
G1 ELEV  9 170. 170. 175. 175. 170. 170. 170. 170. 170. 160. 125.
G1 ELEV  9 160. 170. 175. 175. 175. 175. 175. 175. 175. 175.
G1 FLAG  9 21*1.
G1 ELEV 10 170. 170. 175. 175. 175. 175. 175. 175. 160. 145. 140.
G1 ELEV 10 170. 175. 175. 175. 175. 180. 180. 175. 175. 175.
G1 FLAG 10 21*1.
G1 ELEV 11 190. 180. 175. 175. 175. 175. 175. 170. 150. 150. 170.
G1 ELEV 11 175. 175. 175. 175. 175. 180. 180. 175. 175. 175.
G1 FLAG 11 21*1.
G1 ELEV 12 195. 180. 180. 180. 180. 180. 180. 180. 130. 160. 175.
G1 ELEV 12 175. 180. 180. 180. 180. 180. 180. 180. 180. 180.
G1 FLAG 12 21*1.
G1 ELEV 13 195. 180. 180. 180. 180. 180. 180. 180. 130. 160. 180.
G1 ELEV 13 180. 180. 180. 180. 180. 180. 180. 180. 180. 180.
G1 FLAG 13 21*1.
G1 ELEV 14 195. 180. 180. 180. 180. 180. 180. 175. 140. 175. 180.
G1 ELEV 14 180. 180. 180. 180. 180. 185. 185. 180. 180. 180.
G1 FLAG 14 21*1.
G1 ELEV 15 190. 185. 180. 180. 180. 180. 180. 170. 170. 180. 180.
G1 ELEV 15 180. 180. 180. 180. 180. 185. 185. 180. 180. 180.
G1 FLAG 15 21*1.
G1 ELEV 16 190. 185. 185. 185. 185. 185. 180. 145. 180. 185. 185.
G1 ELEV 16 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
G1 FLAG 16 21*1.
G1 ELEV 17 190. 185. 185. 185. 185. 185. 180. 130. 180. 185. 185.
G1 ELEV 17 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
G1 FLAG 17 21*1.
G1 ELEV 18 190. 190. 185. 185. 185. 185. 180. 130. 175. 185. 185.
G1 ELEV 18 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
G1 FLAG 18 21*1.
G1 ELEV 19 190. 190. 185. 185. 185. 185. 185. 180. 180. 185. 185.
G1 ELEV 19 185. 185. 185. 185. 185. 190. 190. 185. 185. 185.
G1 FLAG 19 21*1.
G1 ELEV 20 190. 190. 190. 190. 190. 190. 185. 140. 160. 185. 185.
G1 ELEV 20 185. 185. 185. 185. 185. 190. 190. 185. 190. 190.
G1 FLAG 20 21*1.
G1 ELEV 21 190. 190. 190. 190. 190. 190. 150. 140. 180. 185. 190.
G1 ELEV 21 190. 190. 190. 190. 190. 190. 190. 190. 190. 190.
G1 FLAG 21 21*1.
G1 ELEV 22 185. 185. 185. 185. 185. 150. 130. 165. 185. 190. 190.
G1 ELEV 22 190. 190. 190. 190. 190. 190. 190. 190. 190. 190.
G1 FLAG 22 21*1.
G1 ELEV 23 185. 185. 185. 185. 185. 185. 170. 170. 190. 190. 190.
G1 ELEV 23 190. 190. 190. 190. 190. 195. 195. 190. 190. 190.
G1 FLAG 23 21*1.
G1 ELEV 24 185. 185. 185. 185. 185. 185. 185. 185. 190. 190. 190.
G1 ELEV 24 190. 190. 190. 195. 195. 195. 195. 190. 190. 190.
G1 FLAG 24 21*1.
G1 ELEV 25 185. 185. 185. 185. 185. 185. 185. 185. 190. 195. 195.
G1 ELEV 25 195. 195. 195. 195. 195. 195. 195. 195. 195. 195.
G1 FLAG 25 21*1.
G1 ELEV 26 185. 185. 185. 185. 185. 185. 185. 185. 195. 195. 195.
G1 ELEV 26 195. 195. 195. 195. 195. 200. 200. 195. 195. 195.
G1 FLAG 26 21*1.

RE GRIDCART G1 END
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RE FINISHED


ME STARTING
   INPUTFIL  91ATSRAN.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  12345 1991
   UAIRDATA  12345 1991
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED

************************************
*** SETUP Finishes Successfully ***
************************************
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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

- - - -

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	WIDTH OF AREA (METERS)	EMISSION RATE SCALAR VARY BY
ATSUG1	0	.22300E-03	30.0	-20.0	38.1	1.00	67.00	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	ATSUG1 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

-1000.0,	-900.0,	-800.0,	-700.0,	-600.0,	-500.0,	-400.0,	-300.0,	-200.0,	-100.0,
.0,	100.0,	200.0,	300.0,	400.0,	500.0,	600.0,	700.0,	800.0,	900.0,
1000.0,									

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

-600.0,	-500.0,	-400.0,	-300.0,	-200.0,	-100.0,	.0,	100.0,	200.0,	300.0,
400.0,	500.0,	600.0,	700.0,	800.0,	900.0,	1000.0,	1100.0,	1200.0,	1300.0,
1400.0,	1500.0,	1600.0,	1700.0,	1800.0,	1900.0,				

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	59.44
1800.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91
1700.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91
1600.00	56.39	56.39	56.39	56.39	56.39	56.39	51.82	51.82	57.91
1500.00	56.39	56.39	56.39	56.39	56.39	45.72	39.62	50.29	56.39
1400.00	57.91	57.91	57.91	57.91	57.91	57.91	45.72	42.67	54.86
1300.00	57.91	57.91	57.91	57.91	57.91	57.91	56.39	42.67	48.77
1200.00	57.91	57.91	56.39	56.39	56.39	56.39	56.39	54.86	54.86
1100.00	57.91	57.91	56.39	56.39	56.39	56.39	54.86	39.62	53.34
1000.00	57.91	56.39	56.39	56.39	56.39	56.39	54.86	39.62	54.86
900.00	57.91	56.39	56.39	56.39	56.39	56.39	54.86	44.20	54.86
800.00	57.91	56.39	54.86	54.86	54.86	54.86	54.86	51.82	51.82
700.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	53.34	42.67
600.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	54.86	39.62
500.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	54.86	39.62
400.00	57.91	54.86	53.34	53.34	53.34	53.34	53.34	51.82	45.72
300.00	51.82	51.82	53.34	53.34	53.34	53.34	53.34	53.34	48.77
200.00	51.82	51.82	53.34	53.34	51.82	51.82	51.82	51.82	51.82
100.00	51.82	51.82	53.34	53.34	51.82	51.82	51.82	51.82	53.34
.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-100.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-200.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-300.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-400.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-500.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-600.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	59.44	59.44	59.44	59.44	59.44	59.44	59.44	60.96	60.96
1800.00	59.44	59.44	59.44	59.44	59.44	59.44	59.44	59.44	59.44
1700.00	57.91	57.91	57.91	57.91	57.91	59.44	59.44	59.44	59.44
1600.00	57.91	57.91	57.91	57.91	57.91	57.91	57.91	59.44	59.44
1500.00	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91
1400.00	56.39	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91
1300.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91	57.91
1200.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91	57.91
1100.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
1000.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
900.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
800.00	54.86	54.86	54.86	54.86	54.86	54.86	54.86	56.39	56.39
700.00	53.34	54.86	54.86	54.86	54.86	54.86	54.86	56.39	56.39
600.00	48.77	54.86	54.86	54.86	54.86	54.86	54.86	54.86	54.86
500.00	48.77	53.34	53.34	54.86	54.86	54.86	54.86	54.86	54.86
400.00	45.72	51.82	53.34	53.34	53.34	53.34	53.34	54.86	54.86
300.00	44.20	42.67	51.82	53.34	53.34	53.34	53.34	54.86	54.86
200.00	48.77	38.10	48.77	51.82	53.34	53.34	53.34	53.34	53.34
100.00	51.82	39.62	42.67	51.82	53.34	53.34	53.34	53.34	53.34
.00	51.82	41.15	41.15	51.82	51.82	51.82	51.82	53.34	53.34
-100.00	51.82	42.67	39.62	48.77	51.82	50.29	51.82	51.82	51.82
-200.00	51.82	51.82	38.10	42.67	48.77	50.29	50.29	51.82	51.82
-300.00	51.82	51.82	38.10	38.10	48.77	50.29	50.29	50.29	50.29
-400.00	51.82	51.82	44.20	38.10	45.72	48.77	48.77	50.29	50.29
-500.00	51.82	51.82	45.72	35.05	41.15	48.77	47.24	48.77	50.29
-600.00	51.82	48.77	45.72	38.10	38.10	45.72	47.24	48.77	48.77

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	59.44	59.44	59.44
1800.00	59.44	59.44	59.44
1700.00	57.91	57.91	57.91
1600.00	57.91	57.91	57.91
1500.00	57.91	57.91	57.91
1400.00	57.91	57.91	57.91
1300.00	56.39	57.91	57.91
1200.00	56.39	56.39	56.39
1100.00	56.39	56.39	56.39
1000.00	56.39	56.39	56.39
900.00	56.39	56.39	56.39
800.00	54.86	54.86	54.86
700.00	54.86	54.86	54.86
600.00	54.86	54.86	54.86
500.00	54.86	54.86	54.86
400.00	53.34	53.34	53.34
300.00	53.34	53.34	53.34
200.00	53.34	53.34	53.34
100.00	53.34	53.34	53.34
.00	51.82	51.82	51.82
-100.00	51.82	51.82	51.82
-200.00	51.82	51.82	50.29
-300.00	50.29	50.29	50.29
-400.00	48.77	48.77	48.77
-500.00	48.77	48.77	48.77
-600.00	48.77	48.77	48.77

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00
.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

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

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

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

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

STABILITY	WIND SPEED CATEGORY					
CATEGORY	1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

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

FILE: 91ATSRAN.MET FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1)
SURFACE STATION NO.: 12345 UPPER AIR STATION NO.: 12345
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1991 YEAR: 1991

YEAR	MONTH	DAY	HOUR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN
91	1	1	1	15.0	1.54	279.2	6	500.0	500.0
91	1	1	2	.6	2.06	279.2	6	500.0	500.0
91	1	1	3	26.9	1.54	279.2	6	500.0	500.0
91	1	1	4	13.1	1.03	279.2	6	500.0	500.0
91	1	1	5	10.8	2.57	279.2	6	500.0	500.0
91	1	1	6	9.8	2.57	279.2	6	500.0	500.0
91	1	1	7	18.5	2.06	279.2	5	500.0	500.0
91	1	1	8	54.0	2.06	279.2	5	500.0	500.0
91	1	1	9	33.2	2.06	279.2	4	500.0	500.0
91	1	1	10	22.5	3.09	279.2	4	500.0	500.0
91	1	1	11	36.7	3.09	279.2	3	500.0	500.0
91	1	1	12	33.6	2.06	279.2	3	500.0	500.0
91	1	1	13	32.1	3.09	279.2	2	500.0	500.0
91	1	1	14	20.1	4.63	278.2	2	500.0	500.0
91	1	1	15	18.0	5.66	278.2	3	500.0	500.0
91	1	1	16	5.1	5.66	277.2	4	500.0	500.0
91	1	1	17	15.9	6.69	278.2	4	500.0	500.0
91	1	1	18	358.6	6.69	280.2	4	500.0	500.0
91	1	1	19	356.5	6.18	280.2	4	500.0	500.0
91	1	1	20	356.7	6.18	280.2	4	500.0	500.0
91	1	1	21	4.9	5.66	280.2	4	500.0	500.0
91	1	1	22	349.5	3.60	281.2	5	500.0	500.0
91	1	1	23	6.2	3.09	280.2	6	500.0	500.0
91	1	1	24	45.0	2.57	279.2	6	500.0	500.0

*** 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.

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	.52755	.64960	.81779	.76663	.95020	1.23875	1.54526	1.86080	1.88790
1800.00	.58192	.60943	.82458	.86622	.91970	1.26570	1.58309	1.99492	2.03728
1700.00	.65737	.62845	.77085	.97622	.93139	1.26645	1.62903	2.11445	2.22962
1600.00	.69745	.71237	.72858	1.00539	1.03466	1.23300	1.68393	2.21310	2.46794
1500.00	.64494	.80099	.77502	.93988	1.19196	1.20505	1.73146	2.29391	2.74828
1400.00	.56695	.79598	.89663	.89640	1.25843	1.28206	1.73686	2.37177	3.05541
1300.00	.59984	.68927	.97052	.98971	1.17874	1.49194	1.68903	2.46268	3.36136
1200.00	.61794	.68806	.87348	1.14969	1.14375	1.62791	1.70007	2.55210	3.63368
1100.00	.63907	.72735	.80733	1.13543	1.31792	1.53561	1.94069	2.57126	3.85895
1000.00	.67470	.74910	.86798	.98872	1.46800	1.53657	2.19980	2.52180	4.06252
900.00	.64791	.78774	.89375	1.05168	1.29123	1.82788	2.11261	2.72193	4.27255
800.00	.69625	.76901	.93525	1.09031	1.29977	1.79717	2.23137	3.18892	4.37708
700.00	.57306	.80323	.93535	1.13480	1.37020	1.67345	2.57893	3.21342	4.53655
600.00	.55578	.62198	.89412	1.16605	1.42576	1.80318	2.33473	3.60267	5.22953
500.00	.57140	.68659	.76416	.97876	1.47391	1.87634	2.50265	3.69909	5.78647
400.00	.58094	.67916	.80103	.99807	1.18264	1.81483	2.65006	3.80957	6.43519
300.00	.33767	.45854	.70556	.98988	1.25778	1.64020	2.33580	4.06502	6.54197
200.00	.42133	.49447	.56108	.63216	.84762	1.40597	2.31635	3.45606	6.65841
100.00	.47480	.52221	.59261	.70066	.87453	1.16638	1.58460	2.53396	5.23887
.00	.63592	.73642	.86985	1.04649	1.28995	1.66277	2.25046	3.27880	5.24983
-100.00	.36629	.42856	.50886	.61057	.74935	1.01749	1.83078	3.40481	6.68689
-200.00	.32237	.39106	.56123	.91768	1.40440	1.81097	2.41480	3.63773	5.92906
-300.00	.60516	.80795	.92070	1.00356	1.30532	1.75274	2.25832	3.39448	6.87218
-400.00	.59605	.66177	.85919	1.05413	1.25990	1.57113	2.20096	4.12854	4.87912
-500.00	.62437	.71785	.83857	.94143	1.21195	1.55189	2.76617	3.23929	3.27402
-600.00	.60242	.67496	.75008	.96697	1.16357	2.00198	2.31496	2.48431	2.76912

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	3.11351	4.90632	4.84316	3.86739	2.71657	2.31203	2.15363	1.89099	1.68319
1800.00	3.20033	5.31563	5.27466	4.11656	2.87125	2.49304	2.29874	1.97210	1.83026
1700.00	3.28781	5.77740	5.77112	4.38731	3.05571	2.70073	2.44282	2.07806	2.01100
1600.00	3.38197	6.29984	6.34662	4.68239	3.27917	2.93706	2.58109	2.23938	2.18426
1500.00	3.49432	6.89231	7.01931	5.00596	3.55258	3.20056	2.72019	2.47492	2.28735
1400.00	3.64443	7.56531	7.81294	5.36486	3.88844	3.48285	2.89402	2.75386	2.27768
1300.00	3.86288	8.33027	8.75885	5.77085	4.30067	3.76859	3.16631	2.97534	2.23047
1200.00	4.19251	9.19941	9.89927	6.24423	4.80312	4.05163	3.57481	3.02258	2.28210
1100.00	4.68422	10.18574	11.29199	6.81952	5.40290	4.38376	4.01679	2.96667	2.35389
1000.00	5.37925	11.30508	13.01835	7.55343	6.08517	4.91109	4.22731	3.04166	2.29100
900.00	6.30695	12.65902	15.28790	8.58633	6.84472	5.71522	4.18827	3.10273	2.18244
800.00	7.37553	14.27819	18.25241	10.04338	7.75100	6.42082	4.32158	2.96083	2.14557
700.00	8.45317	16.30732	22.20280	12.09523	9.15420	6.59278	4.34485	2.87288	2.31029
600.00	9.45667	19.26211	27.91259	14.94758	11.06589	6.79314	4.13566	3.06686	2.14360
500.00	10.12618	23.75645	36.44083	18.85378	12.32174	6.69109	4.33286	2.90474	2.30031
400.00	11.56457	30.39845	50.39985	24.96657	12.67744	6.80404	4.24073	3.08177	1.98034
300.00	14.00975	40.10016	76.57121	31.70386	12.62909	6.82753	4.14685	2.57843	2.06829
200.00	15.29609	56.89597	135.81810	33.92360	12.67111	6.23110	3.95578	2.50076	1.52592
100.00	14.20954	78.31152	305.28440	31.87162	10.20478	4.50084	2.47784	1.78457	1.40270
.00	11.23249	65.49232	40.74569	27.23322	11.96768	6.19677	3.76998	2.55688	1.86096
-100.00	14.02239	52.85194	58.35002	19.56657	7.08871	4.85002	4.09709	3.40381	2.59778
-200.00	14.09632	28.49881	28.48010	10.60722	7.76114	4.90564	2.13844	1.60392	1.44027
-300.00	8.19205	18.71269	17.44034	5.36746	5.40571	3.77527	3.49195	1.82038	1.00511
-400.00	6.36155	12.55131	11.75413	4.59162	3.51821	3.05729	2.26422	2.40585	1.67843
-500.00	5.88147	8.66981	8.45316	4.32189	1.96638	2.55490	1.93979	1.55782	1.66353
-600.00	5.19608	6.29822	6.44731	3.75035	1.59420	1.71071	1.85341	1.38976	1.15953

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	1.67022	1.47684	1.17752
1800.00	1.76970	1.44207	1.19380
1700.00	1.81243	1.41487	1.23413
1600.00	1.78512	1.44115	1.25388
1500.00	1.74893	1.49346	1.22980
1400.00	1.78527	1.50412	1.18098
1300.00	1.84898	1.45458	1.14756
1200.00	1.83599	1.39606	1.13165
1100.00	1.75363	1.36869	1.15610
1000.00	1.69794	1.37990	1.24563
900.00	1.69141	1.49253	1.12736
800.00	1.82795	1.35343	1.14835
700.00	1.66696	1.41081	1.20184
600.00	1.77065	1.43159	1.05868
500.00	1.69766	1.15765	.97966
400.00	1.46822	1.29018	1.07946
300.00	1.57397	1.14815	.82879
200.00	1.02102	.76291	.62361
100.00	1.16587	1.00663	.88306
.00	1.43049	1.14201	.93613
-100.00	1.98526	1.55034	1.23388
-200.00	1.44376	1.44127	1.32170
-300.00	.88184	.78822	.70230
-400.00	.97481	.59821	.55590
-500.00	1.47369	.95288	.60581
-600.00	1.16143	1.27025	.87304

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00
1900.0	196.97420 (91080118)	202.87730 (91040506)	208.98090 (91052104)	208.84530 (91072806)	219.26660 (91121806)
1800.0	208.20640 (91101805)	208.72510 (91110224)	222.00690 (91100205)	226.30740 (91121720)	225.44230 (91062102)
1700.0	214.09520 (91032323)	226.84210 (91011324)	236.26470 (91040506)	242.89330 (91052104)	221.34970 (91072806)
1600.0	226.27470 (91030703)	233.17510 (91101805)	248.36300 (91100404)	262.70140 (91100205)	270.29450 (91072806)
1500.0	249.01630 (91072303)	248.19160 (91101501)	262.35030 (91101805)	281.23610 (91040506)	292.28030 (91052105)
1400.0	241.31000 (91101702)	278.16340 (91082605)	283.93260 (91090923)	304.85330 (91100404)	315.91620 (91100205)
1300.0	274.92730 (91092203)	290.22890 (91101702)	305.93230 (91030703)	330.12420 (91101805)	340.97170 (91040506)
1200.0	296.16390 (91040905)	305.98770 (91092203)	338.56330 (91120404)	338.86210 (91032323)	373.17410 (91100404)
1100.0	310.06520 (91112122)	332.53170 (91051504)	354.00460 (91101424)	387.01340 (91082605)	387.18740 (91090923)
1000.0	337.94290 (91101903)	352.61340 (91112122)	373.33100 (91082601)	398.33220 (91121724)	440.14990 (91030703)
900.0	365.99160 (91020908)	394.00970 (91101903)	411.09900 (91102901)	449.19170 (91030401)	476.61640 (91101702)
800.0	378.38230 (91102922)	399.67900 (91020908)	457.97590 (91101903)	486.42430 (91102901)	536.28270 (91030401)
700.0	371.35230 (91101704)	439.77650 (91102922)	486.13090 (91082802)	527.13670 (91101903)	582.58340 (91102901)
600.0	422.78290 (91021116)	451.33840 (91030122)	501.25130 (91101704)	566.34640 (91082802)	623.98160 (91012403)
500.0	440.72490 (91101904)	490.56200 (91041603)	540.28420 (91050304)	591.51990 (91030122)	697.99950 (91102922)
400.0	455.98870 (91111219)	530.34380 (91122624)	594.18110 (91101904)	650.83030 (91041603)	725.91720 (91050304)
300.0	317.71800 (91110907)	380.71850 (91052103)	621.56530 (91052103)	641.10800 (91111219)	791.24500 (91101904)
200.0	487.62940 (91101919)	529.23860 (91101919)	642.06120 (91031705)	679.67140 (91041605)	533.85710 (91082604)
100.0	446.70400 (91112904)	454.68880 (91112904)	445.92450 (91112904)	612.34550 (91060604)	828.72840 (91060604)
.0	508.85710 (91081221)	577.08250 (91081221)	661.43350 (91081221)	762.05650 (91081221)	882.22360 (91081221)
-100.0	507.38930 (91041924)	556.38230 (91060503)	656.53450 (91060503)	746.68020 (91120718)	837.13210 (91120718)
-200.0	481.15580 (91061802)	547.28050 (91021904)	555.81480 (91021904)	645.84270 (91031020)	838.80560 (91021902)
-300.0	475.38170 (91031020)	543.41310 (91021902)	591.50510 (91082203)	672.69510 (91072802)	764.46670 (91060221)
-400.0	438.47990 (91050103)	437.71380 (91072802)	567.21190 (91100302)	587.18000 (91082205)	721.66350 (91080124)
-500.0	439.15370 (91100302)	407.46460 (91071022)	535.07120 (91100301)	579.42510 (91070403)	667.45970 (91040524)
-600.0	429.05370 (91100301)	452.27680 (91080303)	470.54220 (91070403)	508.27560 (91021217)	424.46380 (91091018)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -500.00	-400.00	-300.00	-200.00	-100.00
1900.0	221.40170 (91120823)	217.39350 (91050301)	225.64110 (91030523)	228.24360 (91020208)	237.05890 (91062002)
1800.0	233.03630 (91103104)	241.73770 (91010201)	248.33760 (91102801)	253.79810 (91020208)	251.99690 (91062002)
1700.0	259.26930 (91101502)	258.49050 (91010201)	270.63240 (91020408)	267.64340 (91020208)	268.64750 (91120324)
1600.0	277.76010 (91062102)	287.51630 (91120823)	276.54840 (91050301)	286.52470 (91092221)	288.29720 (91092902)
1500.0	271.73350 (91062102)	303.44020 (91103104)	306.51970 (91050301)	316.65310 (91120719)	320.78460 (91092902)
1400.0	324.90620 (91072806)	340.41400 (91101502)	347.97490 (91010201)	346.75120 (91030523)	352.41210 (91012006)
1300.0	358.05050 (91052105)	372.93050 (91062102)	372.13970 (91101504)	392.25520 (91102801)	400.21800 (91012006)
1200.0	391.37080 (91082606)	355.68600 (91072806)	408.06050 (91103104)	427.73280 (91020408)	428.82400 (91022322)
1100.0	422.27670 (91040506)	447.45170 (91121720)	469.67760 (91101502)	468.55720 (91050301)	494.79130 (91020208)
1000.0	472.27260 (91011324)	500.61820 (91082606)	515.32070 (91062102)	542.49040 (91010201)	536.24510 (91092221)
900.0	508.10760 (91032323)	539.67970 (91120523)	584.38570 (91072806)	609.07290 (91120823)	612.83510 (91032324)
800.0	577.64370 (91072303)	620.00970 (91101805)	659.42850 (91052104)	694.73450 (91101502)	721.10860 (91102801)
700.0	623.52370 (91092203)	691.50670 (91030703)	719.24600 (91120523)	730.51860 (91062102)	804.92460 (91050301)
600.0	709.60200 (91102901)	757.78320 (91101424)	822.83400 (91090923)	907.88670 (91052105)	948.65070 (91010201)
500.0	751.22720 (91012403)	870.55430 (91102901)	953.26570 (91120404)	1050.82400 (91100404)	1133.08900 (91101502)
400.0	816.36080 (91121619)	973.12280 (91020908)	1100.64600 (91111404)	1226.94700 (91030703)	1335.20400 (91072806)
300.0	903.41930 (91061024)	1042.51800 (91030122)	1237.40800 (91082802)	1414.48200 (91040905)	1592.43500 (91011324)
200.0	987.39970 (91052103)	1160.51400 (91122624)	1361.75700 (91061024)	1615.94200 (91102922)	1929.73400 (91111404)
100.0	988.92440 (91060604)	1184.04100 (91031705)	1454.93100 (91041605)	1792.01000 (91052103)	2328.11700 (91122624)
.0	1038.57600 (91081221)	1230.56300 (91081221)	1481.98400 (91081221)	1852.41900 (91081221)	2508.49800 (91042003)
-100.0	987.44790 (91061802)	1149.72200 (91021904)	1437.35100 (91031020)	1738.46500 (91060605)	2223.60300 (91082205)
-200.0	946.02200 (91050103)	1106.42600 (91060221)	1331.78200 (91100301)	1549.44300 (91040524)	1829.17900 (91032319)
-300.0	896.07950 (91082205)	1011.06700 (91070403)	1166.16000 (91091018)	1362.49100 (91050703)	1514.45100 (91080304)
-400.0	810.11510 (91090405)	874.69650 (91091018)	1060.58200 (91123006)	1173.41300 (91062624)	1276.81800 (91121718)
-500.0	616.97990 (91091018)	794.32370 (91123006)	837.11040 (91103103)	1009.83900 (91080304)	1065.87400 (91060902)
-600.0	667.56100 (91052606)	596.98830 (91032319)	791.58500 (91102718)	851.31720 (91090404)	923.01350 (91121020)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) .00	100.00	200.00	300.00	400.00
1900.0	238.33680 (91073122)	236.99730 (91072023)	237.03630 (91022804)	234.45790 (91092703)	231.32610 (91020108)
1800.0	257.50620 (91021107)	255.08660 (91072023)	256.61440 (91110407)	253.47140 (91092703)	251.02900 (91072605)
1700.0	278.84050 (91021107)	275.20050 (91072023)	278.26290 (91030705)	267.82010 (91020806)	271.78670 (91101807)
1600.0	304.09100 (91010702)	297.59050 (91072023)	302.74740 (91121320)	284.96950 (91070903)	293.50680 (91012524)
1500.0	332.59650 (91111921)	323.17510 (91111905)	330.72920 (91100207)	317.11260 (91030405)	308.37290 (91010104)
1400.0	365.54030 (91022402)	358.35780 (91101318)	363.68330 (91052106)	357.60360 (91020108)	351.39740 (91051106)
1300.0	403.53530 (91072701)	400.10230 (91101318)	393.00350 (91052106)	389.94230 (91072605)	385.93580 (91072805)
1200.0	448.59300 (91011106)	447.89780 (91101318)	432.58770 (91072604)	438.01700 (91101807)	413.73020 (91030201)
1100.0	501.22450 (91082306)	502.26610 (91101318)	495.84080 (91092703)	475.25860 (91012524)	473.91800 (91041624)
1000.0	563.13460 (91110718)	565.10600 (91012404)	545.94610 (91092703)	546.73910 (91062123)	513.64620 (91120601)
900.0	641.41070 (91070902)	642.80430 (91050105)	607.40360 (91030405)	617.11430 (91072805)	576.42700 (91120703)
800.0	735.59470 (91103024)	737.37730 (91122320)	726.20200 (91020108)	700.49330 (91030323)	667.16280 (91123003)
700.0	841.27890 (91062002)	850.24950 (91021601)	835.17740 (91101807)	783.77840 (91010404)	737.48550 (91101824)
600.0	967.03320 (91092902)	999.34950 (91061124)	972.04540 (91062123)	926.54240 (91051901)	837.07220 (91091118)
500.0	1178.02600 (91012006)	1184.64300 (91011005)	1141.36500 (91010317)	1070.59800 (91033006)	964.34580 (91020705)
400.0	1402.63000 (91020208)	1417.59100 (91052106)	1361.08700 (91010404)	1259.20500 (91051803)	1135.31100 (91040824)
300.0	1725.23900 (91020408)	1743.90800 (91092703)	1635.60500 (91033006)	1451.42100 (91040824)	1280.87400 (91103018)
200.0	2238.02700 (91052105)	2289.22300 (91052106)	2020.16700 (91030920)	1695.11900 (91050702)	1382.30100 (91040901)
100.0	3232.43300 (91082802)	3481.73000 (91072601)	2532.85200 (91061101)	1910.52700 (91021901)	1520.96600 (91121518)
.0	4192.65300 (91052103)	4684.82900 (91092919)	2800.31800 (91102823)	1988.64100 (91122806)	1569.69000 (91060903)
-100.0	2892.27800 (91123006)	3043.76800 (91041621)	2386.99000 (91021024)	1798.89400 (91022018)	1497.34300 (91070324)
-200.0	2068.57800 (91121020)	2107.01000 (91072405)	1902.32300 (91071020)	1631.05100 (91020417)	1343.82800 (91021416)
-300.0	1626.30300 (91051123)	1641.73800 (91072405)	1505.20200 (91061904)	1404.29100 (91051401)	1214.81600 (91020417)
-400.0	1340.45000 (91052602)	1340.50800 (91041621)	1297.41200 (91072021)	1207.71500 (91052024)	1076.36700 (91072322)
-500.0	1101.36900 (91032320)	1130.56800 (91041621)	1082.99000 (91072406)	960.84550 (91042222)	940.48210 (91071020)
-600.0	951.42290 (91032320)	954.20070 (91052605)	914.90360 (91072222)	864.95280 (91072820)	826.50420 (91062704)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 500.00	600.00	700.00	800.00	900.00
1900.0	224.93970 (91062123)	218.51480 (91030201)	212.59390 (91120601)	209.75260 (91111517)	200.96220 (91010406)
1800.0	247.27440 (91051106)	240.20730 (91030323)	236.56390 (91010404)	228.90480 (91051901)	222.28000 (91033006)
1700.0	263.71250 (91072805)	257.49660 (91041624)	246.56940 (91120703)	231.03570 (91123003)	232.98000 (91101824)
1600.0	286.17910 (91010317)	272.41780 (91120601)	270.73100 (91051901)	259.82080 (91033006)	247.48850 (91031002)
1500.0	304.81880 (91111218)	305.09710 (91010404)	293.13680 (91123003)	278.17210 (91101824)	271.13980 (91091118)
1400.0	342.33340 (91041624)	322.23300 (91111517)	320.26090 (91010406)	299.48500 (91110406)	295.62290 (91010205)
1300.0	364.24150 (91120601)	360.98330 (91123003)	339.08840 (91101824)	314.65300 (91102923)	299.37100 (91120603)
1200.0	402.19250 (91010404)	396.94420 (91010406)	369.23510 (91110406)	361.67450 (91040604)	332.83010 (91112405)
1100.0	453.25400 (91051901)	423.87830 (91101824)	397.16710 (91010205)	377.58510 (91032405)	370.95580 (91031702)
1000.0	488.53530 (91010406)	470.78750 (91091118)	419.10200 (91120603)	428.08260 (91092920)	380.22080 (91040824)
900.0	546.16630 (91101824)	531.61450 (91010205)	464.71060 (91112405)	453.02960 (91061522)	412.44050 (91011706)
800.0	632.62430 (91091118)	570.04100 (91020705)	523.84320 (91121617)	490.56520 (91011706)	455.32920 (91070503)
700.0	682.73680 (91040604)	656.76340 (91030920)	585.43660 (91011706)	532.58500 (91070503)	492.14850 (91103018)
600.0	798.82430 (91092920)	699.97660 (91011706)	625.93710 (91070503)	597.55910 (91050702)	530.93410 (91032318)
500.0	870.27250 (91050604)	734.82870 (91070503)	702.03480 (91120901)	627.61770 (91123017)	433.76010 (91040601)
400.0	914.21750 (91103018)	824.71250 (91032318)	758.89070 (91040601)	661.25830 (91040901)	609.23970 (91061101)
300.0	1082.42700 (91123017)	938.06790 (91040901)	835.55230 (91061101)	708.81430 (91021901)	523.82130 (91051921)
200.0	1185.83500 (91021901)	912.10540 (91051921)	882.79670 (91121518)	606.02340 (91121202)	649.45040 (91121202)
100.0	1235.24500 (91091022)	1041.82100 (91090401)	761.18370 (91090401)	606.81640 (91072024)	605.60250 (91072024)
.0	1291.14200 (91060903)	1068.67900 (91122806)	906.53360 (91122806)	782.75420 (91122806)	683.16480 (91122806)
-100.0	1259.72700 (91090422)	1050.14300 (91082624)	879.34720 (91110620)	778.93560 (91092919)	636.91710 (91050918)
-200.0	811.91300 (91062523)	979.97770 (91022018)	833.55010 (91031502)	735.11180 (91070324)	660.48410 (91090422)
-300.0	1056.60700 (91092421)	899.17290 (91062523)	514.95820 (91071005)	667.88360 (91022018)	524.74080 (91031502)
-400.0	918.11720 (91071101)	863.36700 (91051024)	640.66410 (91021416)	657.96060 (91062523)	375.32060 (91071005)
-500.0	865.27290 (91081206)	696.52970 (91032317)	650.87100 (91072705)	588.61460 (91092421)	552.41080 (91021416)
-600.0	746.03930 (91062004)	700.63670 (91042406)	577.79260 (91032317)	426.98340 (91020417)	515.42040 (91071804)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 1000.00
1900.0	199.63780 (91101824)
1800.0	210.73280 (91031002)
1700.0	231.03880 (91091118)
1600.0	239.75960 (91010205)
1500.0	254.61770 (91040604)
1400.0	272.41920 (91032405)
1300.0	290.24550 (91092920)
1200.0	320.93820 (91030920)
1100.0	347.23860 (91040824)
1000.0	356.77390 (91011707)
900.0	390.35480 (91070503)
800.0	431.49470 (91103018)
700.0	401.07910 (91120901)
600.0	492.03400 (91121004)
500.0	500.40480 (91011708)
400.0	538.23990 (91021901)
300.0	566.92090 (91051921)
200.0	555.45180 (91091022)
100.0	570.14430 (91072024)
.0	599.77560 (91122806)
-100.0	579.69820 (91050918)
-200.0	515.10790 (91090422)
-300.0	531.78410 (91031502)
-400.0	410.07640 (91022018)
-500.0	465.61770 (91062523)
-600.0	344.68230 (91021416)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE
1.	4684.82900	(91092919)	AT (	100.00,	.00)	GC	26.	4045.44800	(91082205)	AT (	.00,	.00)	GC
2.	4677.10400	(91082624)	AT (	100.00,	.00)	GC	27.	4044.39700	(91101917)	AT (	.00,	.00)	GC
3.	4669.23100	(91090422)	AT (	100.00,	.00)	GC	28.	4034.11400	(91021217)	AT (	.00,	.00)	GC
4.	4664.36100	(91070324)	AT (	100.00,	.00)	GC	29.	4021.91900	(91042003)	AT (	.00,	.00)	GC
5.	4560.64900	(91052101)	AT (	100.00,	.00)	GC	30.	4020.78800	(91060605)	AT (	.00,	.00)	GC
6.	4558.85300	(91050918)	AT (	100.00,	.00)	GC	31.	4014.24900	(91072324)	AT (	.00,	.00)	GC
7.	4549.84400	(91021416)	AT (	100.00,	.00)	GC	32.	4000.56100	(91081221)	AT (	.00,	.00)	GC
8.	4549.11600	(91082104)	AT (	100.00,	.00)	GC	33.	3995.01800	(91090405)	AT (	.00,	.00)	GC
9.	4547.31700	(91111017)	AT (	100.00,	.00)	GC	34.	3982.21100	(91041924)	AT (	.00,	.00)	GC
10.	4545.46700	(91110620)	AT (	100.00,	.00)	GC	35.	3980.80900	(91021902)	AT (	.00,	.00)	GC
11.	4544.03400	(91122018)	AT (	100.00,	.00)	GC	36.	3978.96700	(91031020)	AT (	.00,	.00)	GC
12.	4543.17000	(91062523)	AT (	100.00,	.00)	GC	37.	3978.21200	(91060503)	AT (	.00,	.00)	GC
13.	4533.13400	(91062521)	AT (	100.00,	.00)	GC	38.	3975.57800	(91120718)	AT (	.00,	.00)	GC
14.	4532.82000	(91013016)	AT (	100.00,	.00)	GC	39.	3973.67900	(91070403)	AT (	.00,	.00)	GC
15.	4528.85900	(91022018)	AT (	100.00,	.00)	GC	40.	3970.73100	(91101919)	AT (	.00,	.00)	GC
16.	4528.48800	(91031502)	AT (	100.00,	.00)	GC	41.	3957.74800	(91080305)	AT (	.00,	.00)	GC
17.	4192.65300	(91052103)	AT (	.00,	.00)	GC	42.	3950.34300	(91060604)	AT (	.00,	.00)	GC
18.	4148.33800	(91122624)	AT (	.00,	.00)	GC	43.	3950.15300	(91080303)	AT (	.00,	.00)	GC
19.	4120.19400	(91040524)	AT (	.00,	.00)	GC	44.	3948.93200	(91080124)	AT (	.00,	.00)	GC
20.	4114.26200	(91041605)	AT (	.00,	.00)	GC	45.	3939.95300	(91092422)	AT (	.00,	.00)	GC
21.	4106.11900	(91031705)	AT (	.00,	.00)	GC	46.	3933.46000	(91032923)	AT (	.00,	.00)	GC
22.	4086.29300	(91111219)	AT (	.00,	.00)	GC	47.	3931.96100	(91042404)	AT (	.00,	.00)	GC
23.	4082.53400	(91102123)	AT (	.00,	.00)	GC	48.	3913.41500	(91112904)	AT (	.00,	.00)	GC
24.	4049.25800	(91100301)	AT (	.00,	.00)	GC	49.	3911.75100	(91100204)	AT (	.00,	.00)	GC
25.	4045.57300	(91091018)	AT (	.00,	.00)	GC	50.	3909.74800	(91090306)	AT (	.00,	.00)	GC

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	305.28440 AT (	100.00,	100.00,	42.67,	1.00)	GC	G1
	2ND HIGHEST VALUE IS	135.81810 AT (	100.00,	200.00,	48.77,	1.00)	GC	G1
	3RD HIGHEST VALUE IS	78.31152 AT (	.00,	100.00,	39.62,	1.00)	GC	G1
	4TH HIGHEST VALUE IS	76.57121 AT (	100.00,	300.00,	51.82,	1.00)	GC	G1
	5TH HIGHEST VALUE IS	65.49232 AT (	.00,	.00,	41.15,	1.00)	GC	G1
	6TH HIGHEST VALUE IS	58.35002 AT (	100.00,	-100.00,	39.62,	1.00)	GC	G1

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	4684.82900	ON 91092919:	AT (100.00, .00, 41.15, 1.00)	GC	G1

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** Message Summary For ISC2 Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 263 Informational Message(s)

A Total of 263 Calm Hours Identified

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

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCST2 Finishes Successfully ***
****

CASE 7

```
** INPUT FILE NAME: NEESAR3.INP **
** 1991 ATSUGI MET. DATA WITH RANDOMIZED WIND DIRECTIONS +/- 5 DEGREES **
** 3 STACKS MODELED AS POINT SOURCES PLUS FUGITIVE EMISS. FROM **
** STORAGE/DUST AREAS MODELED AS AREA SOURCE **

CO STARTING
   TITLEONE  ATSUGI -- ISCST2, STACKS 1-3 PLUS FUGITIVE EMISS., SOURCE AS JINKANPO INCINERATOR
   MODELOPT  DFAULT  RURAL  CONC
   AVERTIME  1  PERIOD
   POLLUTID  OTHER
   TERRHGTS  ELEV
   ELEVUNIT  FEET
   FLAGPOLE  1
   RUNORNOT  RUN
   ERRORFIL  ER.OUT
CO FINISHED

SO STARTING

   LOCATION ATSUG1   POINT  -18.0   66.0   38.1

**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG1      1.00    18.3  477    2.74      1.2
   BUILDHGT ATSUG1   36*13.7
   BUILDWID ATSUG1   36*15.0


   LOCATION ATSUG2   POINT   3.0   80.6   38.1

**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG2      1.00    18.3  477    3.96      1.0
   BUILDHGT ATSUG2   36*9.1
   BUILDWID ATSUG2   36*23.0


   LOCATION ATSUG3   POINT  -8.0  57.1   38.1

**          SOURCE  EMISSION  STACK  EXIT   EXIT     STACK
**       PARAMETERS     RATE     HT  TEMP  SPEED  DIAMETER
** --------------- --------    ----  ----  -----  --------
   SRCPARAM ATSUG3      1.00    13.7  477    5.28     0.75
   BUILDHGT ATSUG3   36*9.1
   BUILDWID ATSUG3   36*23.0


   LOCATION ATSUG4   AREA   30.0  -20.0  38.1

**          SOURCE   AREA EMISS.  RELEASE   LENGTH OF SIDE **
**       PARAMETERS      RATE     HEIGHT    OF SQ. AREA    **
** --------------   -----------  -------   -------------- **
   SRCPARAM ATSUG4     0.000223    1.00         67.0


   SRCGROUP  ALL
SO FINISHED
```

```
RE STARTING

** CARTESIAN GRIDS (100 M. SPACING, -1000/1000 IN X AND -600/1900 IN Y)**
RE GRIDCART G1 STA
            G1 XPNTS  -1000. -900. -800. -700. -600. -500. -400. -300.
            G1 XPNTS  -200. -100. 0. 100. 200. 300. 400. 500. 600.
            G1 XPNTS  700. 800. 900. 1000.
            G1 YPNTS  -600. -500. -400. -300. -200. -100. 0. 100. 200.
            G1 YPNTS  300. 400. 500. 600. 700. 800. 900. 1000. 1100.
            G1 YPNTS  1200. 1300. 1400. 1500. 1600. 1700. 1800. 1900.

            G1 ELEV  1 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 160.
            G1 ELEV  1 150. 125. 125. 150. 155. 160. 160. 160. 160. 160.
            G1 FLAG  1 21*1.
            G1 ELEV  2 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
            G1 ELEV  2 150. 115. 135. 160. 155. 160. 165. 160. 160. 160.
            G1 FLAG  2 21*1.
            G1 ELEV  3 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
            G1 ELEV  3 145. 125. 150. 160. 160. 165. 165. 160. 160. 160.
            G1 FLAG  3 21*1.
            G1 ELEV  4 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
            G1 ELEV  4 125. 125. 160. 165. 165. 165. 165. 165. 165. 165.
            G1 FLAG  4 21*1.
            G1 ELEV  5 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 170.
            G1 ELEV  5 125. 140. 160. 165. 165. 170. 170. 170. 170. 165.
            G1 FLAG  5 21*1.
            G1 ELEV  6 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 140.
            G1 ELEV  6 130. 160. 170. 165. 170. 170. 170. 170. 170. 170.
            G1 FLAG  6 21*1.
            G1 ELEV  7 170. 170. 170. 170. 170. 170. 170. 170. 170. 170. 135.
            G1 ELEV  7 135. 170. 170. 170. 170. 175. 175. 170. 170. 170.
            G1 FLAG  7 21*1.
            G1 ELEV  8 170. 170. 175. 175. 170. 170. 170. 170. 175. 170. 130.
            G1 ELEV  8 140. 170. 175. 175. 175. 175. 175. 175. 175. 175.
            G1 FLAG  8 21*1.
            G1 ELEV  9 170. 170. 175. 175. 170. 170. 170. 170. 170. 160. 125.
            G1 ELEV  9 160. 170. 175. 175. 175. 175. 175. 175. 175. 175.
            G1 FLAG  9 21*1.
            G1 ELEV 10 170. 170. 175. 175. 175. 175. 175. 175. 160. 145. 140.
            G1 ELEV 10 170. 175. 175. 175. 175. 180. 180. 175. 175. 175.
            G1 FLAG 10 21*1.
            G1 ELEV 11 190. 180. 175. 175. 175. 175. 175. 170. 150. 150. 170.
            G1 ELEV 11 175. 175. 175. 175. 175. 180. 180. 175. 175. 175.
            G1 FLAG 11 21*1.
            G1 ELEV 12 195. 180. 180. 180. 180. 180. 180. 180. 130. 160. 175.
            G1 ELEV 12 175. 180. 180. 180. 180. 180. 180. 180. 180. 180.
            G1 FLAG 12 21*1.
            G1 ELEV 13 195. 180. 180. 180. 180. 180. 180. 180. 130. 160. 180.
            G1 ELEV 13 180. 180. 180. 180. 180. 180. 180. 180. 180. 180.
            G1 FLAG 13 21*1.
            G1 ELEV 14 195. 180. 180. 180. 180. 180. 180. 175. 140. 175. 180.
            G1 ELEV 14 180. 180. 180. 180. 180. 185. 185. 180. 180. 180.
            G1 FLAG 14 21*1.
            G1 ELEV 15 190. 185. 180. 180. 180. 180. 180. 170. 170. 180. 180.
            G1 ELEV 15 180. 180. 180. 180. 180. 185. 185. 180. 180. 180.
            G1 FLAG 15 21*1.
            G1 ELEV 16 190. 185. 185. 185. 185. 185. 180. 145. 180. 185. 185.
            G1 ELEV 16 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
            G1 FLAG 16 21*1.
            G1 ELEV 17 190. 185. 185. 185. 185. 185. 180. 130. 180. 185. 185.
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            G1 FLAG 17 21*1.
            G1 ELEV 18 190. 190. 185. 185. 185. 185. 180. 130. 175. 185. 185.
            G1 ELEV 18 185. 185. 185. 185. 185. 185. 185. 185. 185. 185.
            G1 FLAG 18 21*1.
            G1 ELEV 19 190. 190. 185. 185. 185. 185. 185. 180. 180. 185. 185.
            G1 ELEV 19 185. 185. 185. 185. 185. 190. 190. 185. 185. 185.
            G1 FLAG 19 21*1.
            G1 ELEV 20 190. 190. 190. 190. 190. 190. 185. 140. 160. 185. 185.
            G1 ELEV 20 185. 185. 185. 185. 185. 190. 190. 185. 190. 190.
            G1 FLAG 20 21*1.
            G1 ELEV 21 190. 190. 190. 190. 190. 190. 150. 140. 180. 185. 190.
            G1 ELEV 21 190. 190. 190. 190. 190. 190. 190. 190. 190. 190.
            G1 FLAG 21 21*1.
            G1 ELEV 22 185. 185. 185. 185. 185. 150. 130. 165. 185. 190. 190.
            G1 ELEV 22 190. 190. 190. 190. 190. 190. 190. 190. 190. 190.
            G1 FLAG 22 21*1.
            G1 ELEV 23 185. 185. 185. 185. 185. 185. 170. 170. 190. 190. 190.
            G1 ELEV 23 190. 190. 190. 190. 190. 195. 195. 190. 190. 190.
            G1 FLAG 23 21*1.
            G1 ELEV 24 185. 185. 185. 185. 185. 185. 185. 185. 190. 190. 190.
            G1 ELEV 24 190. 190. 190. 195. 195. 195. 195. 190. 190. 190.
            G1 FLAG 24 21*1.
            G1 ELEV 25 185. 185. 185. 185. 185. 185. 185. 185. 190. 195. 195.
            G1 ELEV 25 195. 195. 195. 195. 195. 195. 195. 195. 195. 195.
            G1 FLAG 25 21*1.
            G1 ELEV 26 185. 185. 185. 185. 185. 185. 185. 185. 195. 195. 195.
            G1 ELEV 26 195. 195. 195. 195. 195. 200. 200. 195. 195. 195.
            G1 FLAG 26 21*1.

RE GRIDCART G1 END

RE FINISHED


ME STARTING
   INPUTFIL  91ATSRAN.MET
   ANEMHGHT  32.8 FEET
   SURFDATA  12345 1991
   UAIRDATA  12345 1991
** WDROTATE  180
ME FINISHED

OU STARTING
   RECTABLE   ALLAVE FIRST
   MAXTABLE   ALLAVE 50
** DAYTABLE   1
OU FINISHED

************************************
*** SETUP Finishes Successfully ***
************************************
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*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** MODEL SETUP OPTIONS SUMMARY ***

- - - -

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
ATSUG1	0	.10000E+01	-18.0	66.0	38.1	18.30	477.00	2.74	1.20	YES	
ATSUG2	0	.10000E+01	3.0	80.6	38.1	18.30	477.00	3.96	1.00	YES	
ATSUG3	0	.10000E+01	-8.0	57.1	38.1	13.70	477.00	5.28	.75	YES	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	WIDTH OF AREA (METERS)	EMISSION RATE SCALAR VARY BY
ATSUG4	0	.22300E-03	30.0	-20.0	38.1	1.00	67.00	

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: ATSUG1

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	13.7,	15.0,	0	2	13.7,	15.0,	0	3	13.7,	15.0,	0	4	13.7,	15.0,	0	5	13.7,	15.0,	0	6	13.7,	15.0,	0
7	13.7,	15.0,	0	8	13.7,	15.0,	0	9	13.7,	15.0,	0	10	13.7,	15.0,	0	11	13.7,	15.0,	0	12	13.7,	15.0,	0
13	13.7,	15.0,	0	14	13.7,	15.0,	0	15	13.7,	15.0,	0	16	13.7,	15.0,	0	17	13.7,	15.0,	0	18	13.7,	15.0,	0
19	13.7,	15.0,	0	20	13.7,	15.0,	0	21	13.7,	15.0,	0	22	13.7,	15.0,	0	23	13.7,	15.0,	0	24	13.7,	15.0,	0
25	13.7,	15.0,	0	26	13.7,	15.0,	0	27	13.7,	15.0,	0	28	13.7,	15.0,	0	29	13.7,	15.0,	0	30	13.7,	15.0,	0
31	13.7,	15.0,	0	32	13.7,	15.0,	0	33	13.7,	15.0,	0	34	13.7,	15.0,	0	35	13.7,	15.0,	0	36	13.7,	15.0,	0

SOURCE ID: ATSUG2

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	9.1,	23.0,	0	2	9.1,	23.0,	0	3	9.1,	23.0,	0	4	9.1,	23.0,	0	5	9.1,	23.0,	0	6	9.1,	23.0,	0
7	9.1,	23.0,	0	8	9.1,	23.0,	0	9	9.1,	23.0,	0	10	9.1,	23.0,	0	11	9.1,	23.0,	0	12	9.1,	23.0,	0
13	9.1,	23.0,	0	14	9.1,	23.0,	0	15	9.1,	23.0,	0	16	9.1,	23.0,	0	17	9.1,	23.0,	0	18	9.1,	23.0,	0
19	9.1,	23.0,	0	20	9.1,	23.0,	0	21	9.1,	23.0,	0	22	9.1,	23.0,	0	23	9.1,	23.0,	0	24	9.1,	23.0,	0
25	9.1,	23.0,	0	26	9.1,	23.0,	0	27	9.1,	23.0,	0	28	9.1,	23.0,	0	29	9.1,	23.0,	0	30	9.1,	23.0,	0
31	9.1,	23.0,	0	32	9.1,	23.0,	0	33	9.1,	23.0,	0	34	9.1,	23.0,	0	35	9.1,	23.0,	0	36	9.1,	23.0,	0

SOURCE ID: ATSUG3

IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK	IFV	BH	BW	WAK
1	9.1,	23.0,	0	2	9.1,	23.0,	0	3	9.1,	23.0,	0	4	9.1,	23.0,	0	5	9.1,	23.0,	0	6	9.1,	23.0,	0
7	9.1,	23.0,	0	8	9.1,	23.0,	0	9	9.1,	23.0,	0	10	9.1,	23.0,	0	11	9.1,	23.0,	0	12	9.1,	23.0,	0
13	9.1,	23.0,	0	14	9.1,	23.0,	0	15	9.1,	23.0,	0	16	9.1,	23.0,	0	17	9.1,	23.0,	0	18	9.1,	23.0,	0
19	9.1,	23.0,	0	20	9.1,	23.0,	0	21	9.1,	23.0,	0	22	9.1,	23.0,	0	23	9.1,	23.0,	0	24	9.1,	23.0,	0
25	9.1,	23.0,	0	26	9.1,	23.0,	0	27	9.1,	23.0,	0	28	9.1,	23.0,	0	29	9.1,	23.0,	0	30	9.1,	23.0,	0
31	9.1,	23.0,	0	32	9.1,	23.0,	0	33	9.1,	23.0,	0	34	9.1,	23.0,	0	35	9.1,	23.0,	0	36	9.1,	23.0,	0

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

-1000.0,	-900.0,	-800.0,	-700.0,	-600.0,	-500.0,	-400.0,	-300.0,	-200.0,	-100.0,
.0,	100.0,	200.0,	300.0,	400.0,	500.0,	600.0,	700.0,	800.0,	900.0,
1000.0,									

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

-600.0,	-500.0,	-400.0,	-300.0,	-200.0,	-100.0,	.0,	100.0,	200.0,	300.0,
400.0,	500.0,	600.0,	700.0,	800.0,	900.0,	1000.0,	1100.0,	1200.0,	1300.0,
1400.0,	1500.0,	1600.0,	1700.0,	1800.0,	1900.0,				

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	59.44
1800.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91
1700.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91
1600.00	56.39	56.39	56.39	56.39	56.39	56.39	51.82	51.82	57.91
1500.00	56.39	56.39	56.39	56.39	56.39	45.72	39.62	50.29	56.39
1400.00	57.91	57.91	57.91	57.91	57.91	57.91	45.72	42.67	54.86
1300.00	57.91	57.91	57.91	57.91	57.91	57.91	56.39	42.67	48.77
1200.00	57.91	57.91	56.39	56.39	56.39	56.39	56.39	54.86	54.86
1100.00	57.91	57.91	56.39	56.39	56.39	56.39	54.86	39.62	53.34
1000.00	57.91	56.39	56.39	56.39	56.39	56.39	54.86	39.62	54.86
900.00	57.91	56.39	56.39	56.39	56.39	56.39	54.86	44.20	54.86
800.00	57.91	56.39	54.86	54.86	54.86	54.86	54.86	51.82	51.82
700.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	53.34	42.67
600.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	54.86	39.62
500.00	59.44	54.86	54.86	54.86	54.86	54.86	54.86	54.86	39.62
400.00	57.91	54.86	53.34	53.34	53.34	53.34	53.34	51.82	45.72
300.00	51.82	51.82	53.34	53.34	53.34	53.34	53.34	53.34	48.77
200.00	51.82	51.82	53.34	53.34	51.82	51.82	51.82	51.82	51.82
100.00	51.82	51.82	53.34	53.34	51.82	51.82	51.82	51.82	53.34
.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-100.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-200.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-300.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-400.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-500.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82
-600.00	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82	51.82

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	59.44	59.44	59.44	59.44	59.44	59.44	59.44	60.96	60.96
1800.00	59.44	59.44	59.44	59.44	59.44	59.44	59.44	59.44	59.44
1700.00	57.91	57.91	57.91	57.91	57.91	59.44	59.44	59.44	59.44
1600.00	57.91	57.91	57.91	57.91	57.91	57.91	57.91	59.44	59.44
1500.00	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91
1400.00	56.39	57.91	57.91	57.91	57.91	57.91	57.91	57.91	57.91
1300.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91	57.91
1200.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	57.91	57.91
1100.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
1000.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
900.00	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
800.00	54.86	54.86	54.86	54.86	54.86	54.86	54.86	56.39	56.39
700.00	53.34	54.86	54.86	54.86	54.86	54.86	54.86	56.39	56.39
600.00	48.77	54.86	54.86	54.86	54.86	54.86	54.86	54.86	54.86
500.00	48.77	53.34	53.34	54.86	54.86	54.86	54.86	54.86	54.86
400.00	45.72	51.82	53.34	53.34	53.34	53.34	53.34	54.86	54.86
300.00	44.20	42.67	51.82	53.34	53.34	53.34	53.34	54.86	54.86
200.00	48.77	38.10	48.77	51.82	53.34	53.34	53.34	53.34	53.34
100.00	51.82	39.62	42.67	51.82	53.34	53.34	53.34	53.34	53.34
.00	51.82	41.15	41.15	51.82	51.82	51.82	51.82	53.34	53.34
-100.00	51.82	42.67	39.62	48.77	51.82	50.29	51.82	51.82	51.82
-200.00	51.82	51.82	38.10	42.67	48.77	50.29	50.29	51.82	51.82
-300.00	51.82	51.82	38.10	38.10	48.77	50.29	50.29	50.29	50.29
-400.00	51.82	51.82	44.20	38.10	45.72	48.77	48.77	50.29	50.29
-500.00	51.82	51.82	45.72	35.05	41.15	48.77	47.24	48.77	50.29
-600.00	51.82	48.77	45.72	38.10	38.10	45.72	47.24	48.77	48.77

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	59.44	59.44	59.44
1800.00	59.44	59.44	59.44
1700.00	57.91	57.91	57.91
1600.00	57.91	57.91	57.91
1500.00	57.91	57.91	57.91
1400.00	57.91	57.91	57.91
1300.00	56.39	57.91	57.91
1200.00	56.39	56.39	56.39
1100.00	56.39	56.39	56.39
1000.00	56.39	56.39	56.39
900.00	56.39	56.39	56.39
800.00	54.86	54.86	54.86
700.00	54.86	54.86	54.86
600.00	54.86	54.86	54.86
500.00	54.86	54.86	54.86
400.00	53.34	53.34	53.34
300.00	53.34	53.34	53.34
200.00	53.34	53.34	53.34
100.00	53.34	53.34	53.34
.00	51.82	51.82	51.82
-100.00	51.82	51.82	51.82
-200.00	51.82	51.82	50.29
-300.00	50.29	50.29	50.29
-400.00	48.77	48.77	48.77
-500.00	48.77	48.77	48.77
-600.00	48.77	48.77	48.77

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	1.00	1.00	1.00
1800.00	1.00	1.00	1.00
1700.00	1.00	1.00	1.00
1600.00	1.00	1.00	1.00
1500.00	1.00	1.00	1.00
1400.00	1.00	1.00	1.00
1300.00	1.00	1.00	1.00
1200.00	1.00	1.00	1.00
1100.00	1.00	1.00	1.00
1000.00	1.00	1.00	1.00
900.00	1.00	1.00	1.00
800.00	1.00	1.00	1.00
700.00	1.00	1.00	1.00
600.00	1.00	1.00	1.00
500.00	1.00	1.00	1.00
400.00	1.00	1.00	1.00
300.00	1.00	1.00	1.00
200.00	1.00	1.00	1.00
100.00	1.00	1.00	1.00
.00	1.00	1.00	1.00
-100.00	1.00	1.00	1.00
-200.00	1.00	1.00	1.00
-300.00	1.00	1.00	1.00
-400.00	1.00	1.00	1.00
-500.00	1.00	1.00	1.00
-600.00	1.00	1.00	1.00

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

* SOURCE-RECEPTOR COMBINATIONS LESS THAN 1.0 METER OR 3*ZLB *
IN DISTANCE. CALCULATIONS MAY NOT BE PERFORMED.

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
ATSUG1	.0	100.0	38.47
ATSUG2	.0	100.0	19.63

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

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

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1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

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

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

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

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

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

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

FILE: 91ATSRAN.MET FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1)
SURFACE STATION NO.: 12345 UPPER AIR STATION NO.: 12345
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 1991 YEAR: 1991

YEAR	MONTH	DAY	HOUR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN
91	1	1	1	15.0	1.54	279.2	6	500.0	500.0
91	1	1	2	.6	2.06	279.2	6	500.0	500.0
91	1	1	3	26.9	1.54	279.2	6	500.0	500.0
91	1	1	4	13.1	1.03	279.2	6	500.0	500.0
91	1	1	5	10.8	2.57	279.2	6	500.0	500.0
91	1	1	6	9.8	2.57	279.2	6	500.0	500.0
91	1	1	7	18.5	2.06	279.2	5	500.0	500.0
91	1	1	8	54.0	2.06	279.2	5	500.0	500.0
91	1	1	9	33.2	2.06	279.2	4	500.0	500.0
91	1	1	10	22.5	3.09	279.2	4	500.0	500.0
91	1	1	11	36.7	3.09	279.2	3	500.0	500.0
91	1	1	12	33.6	2.06	279.2	3	500.0	500.0
91	1	1	13	32.1	3.09	279.2	2	500.0	500.0
91	1	1	14	20.1	4.63	278.2	2	500.0	500.0
91	1	1	15	18.0	5.66	278.2	3	500.0	500.0
91	1	1	16	5.1	5.66	277.2	4	500.0	500.0
91	1	1	17	15.9	6.69	278.2	4	500.0	500.0
91	1	1	18	358.6	6.69	280.2	4	500.0	500.0
91	1	1	19	356.5	6.18	280.2	4	500.0	500.0
91	1	1	20	356.7	6.18	280.2	4	500.0	500.0
91	1	1	21	4.9	5.66	280.2	4	500.0	500.0
91	1	1	22	349.5	3.60	281.2	5	500.0	500.0
91	1	1	23	6.2	3.09	280.2	6	500.0	500.0
91	1	1	24	45.0	2.57	279.2	6	500.0	500.0

*** 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.

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00	-500.00	-400.00	-300.00	-200.00
1900.00	1.38396	1.77691	2.05766	2.10284	2.74817	3.51661	4.48625	5.01229	5.87632
1800.00	1.44997	1.64387	2.14215	2.19634	2.67049	3.54457	4.58753	5.37609	6.09263
1700.00	1.59788	1.59516	2.06586	2.38773	2.60209	3.54302	4.65628	5.74065	6.37755
1600.00	1.69145	1.71170	1.90830	2.52256	2.63987	3.48616	4.48668	5.80915	6.76246
1500.00	1.58796	1.88815	1.88043	2.44943	2.83700	2.83897	3.56311	5.91548	7.25500
1400.00	1.35946	1.89663	2.06794	2.26423	3.03826	3.35012	3.99255	5.27724	7.75861
1300.00	1.35169	1.64376	2.23001	2.28413	2.98823	3.50909	4.66439	5.37837	7.76314
1200.00	1.41271	1.52067	2.04865	2.55463	2.76502	3.76729	4.55307	6.78446	9.21957
1100.00	1.40138	1.61981	1.77069	2.56388	2.87427	3.74864	4.53438	5.00816	9.81698
1000.00	1.48326	1.59974	1.86509	2.16581	3.16284	3.50929	4.79391	4.82928	10.71912
900.00	1.39608	1.67825	1.84933	2.17764	2.81487	3.77260	4.82873	5.34689	11.27197
800.00	1.46120	1.60088	1.88421	2.13219	2.53121	3.70861	4.63013	6.49729	10.83499
700.00	1.18854	1.60014	1.83041	2.20521	2.58744	3.15878	4.98218	6.73202	8.68463
600.00	1.13592	1.22253	1.72557	2.18936	2.65111	3.26783	4.38457	6.86013	8.46009
500.00	1.16692	1.32991	1.43913	1.80405	2.65552	3.32145	4.35908	6.88122	8.55276
400.00	1.12440	1.31073	1.46681	1.76672	2.01916	3.06947	4.30537	6.00518	9.51757
300.00	.65089	.78673	1.15626	1.68177	2.12564	2.69849	3.65201	6.23428	9.19789
200.00	.72779	.84992	.99975	1.13453	1.35987	2.03043	3.44258	5.08848	9.56107
100.00	.97119	1.04933	1.19249	1.34312	1.51384	1.86353	2.38389	3.58636	7.03651
.00	.94534	1.05372	1.19625	1.38841	1.66129	2.09404	2.79576	4.16926	7.70037
-100.00	.60374	.68212	.79716	.99042	1.38943	2.01416	3.09722	5.30907	12.11168
-200.00	.68288	.92263	1.23603	1.62695	2.27497	2.84995	3.96070	6.96476	13.17918
-300.00	1.14182	1.35067	1.60448	1.75891	2.19920	3.10120	4.60112	7.67104	12.37506
-400.00	1.16228	1.26961	1.51608	1.86339	2.44576	3.37497	5.17012	7.83468	9.66202
-500.00	1.15237	1.32578	1.58684	1.98385	2.68402	3.82768	5.48502	6.21820	7.82990
-600.00	1.15682	1.38058	1.65633	2.20690	3.02403	4.16423	4.68615	5.11859	7.16680

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -100.00	.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00
1900.00	9.73529	12.14323	11.13456	8.59565	6.74772	6.11459	5.57095	4.89362	4.58726
1800.00	10.12809	13.01592	11.88389	9.03811	7.15434	6.51013	5.81905	5.14782	4.87085
1700.00	10.53355	13.99420	12.72018	9.53155	7.62008	6.92199	6.07481	5.47348	5.09446
1600.00	10.97183	15.11456	13.67501	10.10492	8.17061	7.35553	6.37696	5.84976	5.17681
1500.00	11.42812	16.37381	14.75086	10.76737	8.80815	7.80212	6.77507	6.20738	5.14738
1400.00	11.96111	17.85727	16.01565	11.56124	9.54767	8.28135	7.27557	6.41667	5.10505
1300.00	12.52453	19.49599	17.43698	12.46916	10.35025	8.82834	7.81498	6.46999	5.06237
1200.00	13.22404	21.42460	19.14330	13.56855	11.21952	9.51902	8.20718	6.46147	5.03892
1100.00	14.09604	23.67397	21.20411	14.90213	12.18360	10.33875	8.41049	6.37951	4.95676
1000.00	15.20775	26.32553	23.76157	16.51708	13.34507	11.05129	8.54422	6.30042	4.78528
900.00	16.64191	29.56935	27.10947	18.52680	14.88511	11.54087	8.41802	6.17119	4.69194
800.00	18.02293	32.67268	31.07634	20.48201	16.09925	11.92802	8.16838	5.99228	4.75781
700.00	19.96223	37.83048	37.19885	23.69654	17.19388	11.83118	8.02495	6.05961	4.61766
600.00	20.77644	45.08207	45.91891	28.22639	18.87319	11.70722	8.01266	5.80306	4.48049
500.00	23.20790	54.44842	57.71857	32.32233	19.58643	11.87135	7.83528	5.72219	4.37398
400.00	23.12677	68.98802	76.76271	37.36780	19.93652	11.38873	7.58179	5.52389	3.94154
300.00	22.67038	69.67968	105.62420	43.96323	19.43969	11.00794	7.11016	4.79777	3.66001
200.00	23.46934	82.34612	157.87310	44.39292	18.41217	9.46882	5.87963	3.89002	2.63112
100.00	20.71971	96.39746	311.52670	37.83361	13.99758	7.16142	4.47850	3.36392	2.69271
.00	23.64141	79.76321	43.94320	33.01647	16.24191	9.23848	6.06914	4.44467	3.38072
-100.00	30.86558	67.20158	60.67622	23.38494	9.75559	6.83006	5.80507	5.15841	4.25957
-200.00	27.39930	45.06104	30.54072	12.43174	9.98785	6.89596	3.40187	2.78995	2.48647
-300.00	19.49245	29.98017	19.45213	6.55294	7.07498	5.40519	5.14824	3.01535	1.81104
-400.00	15.24274	20.88399	14.21349	5.60053	4.80246	4.29002	3.40768	3.78701	2.75137
-500.00	12.81848	15.23404	10.89323	5.14695	2.78170	3.74793	2.84853	2.48263	2.76890
-600.00	10.74563	11.06978	8.70097	4.64467	2.20919	2.53048	2.72927	2.21210	1.93983

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 800.00	900.00	1000.00
1900.00	4.26458	3.54527	2.98190
1800.00	4.27966	3.49325	2.99911
1700.00	4.22366	3.48176	3.00328
1600.00	4.17094	3.49624	2.95182
1500.00	4.14490	3.48262	2.85787
1400.00	4.14605	3.39939	2.76469
1300.00	4.10738	3.28122	2.71165
1200.00	3.98996	3.18922	2.76113
1100.00	3.84918	3.22421	2.80472
1000.00	3.83212	3.27277	2.70882
900.00	3.89152	3.16075	2.62335
800.00	3.72025	3.03662	2.63203
700.00	3.63367	3.09557	2.54670
600.00	3.66635	2.86106	2.30033
500.00	3.36526	2.58300	2.20219
400.00	3.01905	2.52514	2.06581
300.00	2.68187	1.97396	1.51639
200.00	1.94191	1.56745	1.35346
100.00	2.25331	1.94580	1.70616
.00	2.64124	2.17449	1.83246
-100.00	3.44090	2.82180	2.36025
-200.00	2.36616	2.41614	2.30351
-300.00	1.62618	1.51547	1.34021
-400.00	1.73730	1.15207	1.07413
-500.00	2.40668	1.69457	1.16730
-600.00	1.98878	2.15401	1.56038

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -1000.00	-900.00	-800.00	-700.00	-600.00
1900.0	428.71730 (91100404)	416.36310 (91100205)	438.67820 (91052105)	367.36010 (91072806)	442.08430 (91101502)
1800.0	431.87760 (91101805)	421.77060 (91040506)	457.50480 (91082606)	461.55820 (91072806)	457.57210 (91121806)
1700.0	429.33580 (91090923)	472.62360 (91100404)	459.60430 (91100205)	479.88310 (91121720)	454.19740 (91062102)
1600.0	452.85090 (91072102)	494.34030 (91101805)	458.99880 (91120523)	501.32060 (91082606)	484.42900 (91072806)
1500.0	509.72610 (91082605)	484.38600 (91032323)	529.19560 (91080118)	511.50060 (91100205)	528.65390 (91121720)
1400.0	496.57960 (91101702)	541.12330 (91030703)	536.03100 (91101805)	521.17880 (91110224)	562.61800 (91052104)
1300.0	521.68680 (91092203)	571.02090 (91120404)	554.37990 (91072102)	584.45370 (91080118)	578.19850 (91100205)
1200.0	551.58480 (91051504)	568.77280 (91101424)	624.49520 (91072303)	604.14320 (91090923)	610.73360 (91100404)
1100.0	608.36590 (91102901)	601.32970 (91082601)	621.72560 (91121724)	667.01810 (91030703)	673.38100 (91101805)
1000.0	634.52800 (91060802)	671.88230 (91102901)	684.36000 (91030401)	685.32600 (91101702)	699.39670 (91101501)
900.0	681.42790 (91020908)	699.22570 (91101903)	741.26420 (91102901)	758.61160 (91030401)	773.61980 (91120404)
800.0	688.34000 (91102922)	726.17540 (91020908)	760.27930 (91101903)	790.65320 (91102901)	807.34060 (91092203)
700.0	656.07020 (91101704)	748.17680 (91102922)	784.24010 (91082802)	848.02530 (91101903)	875.41300 (91102901)
600.0	758.63560 (91111319)	745.27020 (91030122)	823.82080 (91101704)	896.87760 (91082802)	965.25590 (91120916)
500.0	783.28540 (91101904)	802.07670 (91122622)	866.56800 (91021116)	936.26320 (91030122)	1017.11300 (91020424)
400.0	771.58450 (91111219)	813.15550 (91102123)	868.18460 (91101904)	966.43290 (91122622)	1077.40300 (91050304)
300.0	533.36500 (91033022)	567.74400 (91082604)	820.46550 (91052103)	972.92500 (91111219)	1031.31400 (91102123)
200.0	638.97620 (91060604)	751.23110 (91101919)	821.26970 (91031705)	922.22280 (91041605)	788.94130 (91033022)
100.0	662.44860 (91112904)	699.52620 (91112904)	746.74540 (91112904)	751.97420 (91112904)	866.16500 (91060604)
.0	629.61330 (91081221)	672.81410 (91081221)	730.61340 (91081221)	805.80320 (91081221)	905.07340 (91081221)
-100.0	598.59030 (91060503)	644.01450 (91060503)	688.01500 (91060503)	776.70970 (91120718)	840.58070 (91120718)
-200.0	559.19510 (91061802)	593.79390 (91021904)	561.56660 (91021904)	693.60720 (91031020)	843.23380 (91021902)
-300.0	547.24440 (91031020)	565.44100 (91021902)	620.40940 (91082203)	678.55300 (91072802)	767.67820 (91100302)
-400.0	510.70170 (91072802)	507.69130 (91060221)	593.96330 (91060605)	620.39650 (91082205)	725.56600 (91080124)
-500.0	499.50320 (91060605)	493.11390 (91082205)	555.72170 (91092422)	598.27510 (91070403)	669.33760 (91040524)
-600.0	471.07440 (91100301)	490.24030 (91080305)	501.83040 (91090405)	540.70290 (91021217)	424.68430 (91091018)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) -500.00	-400.00	-300.00	-200.00	-100.00
1900.0	421.69630 (91120823)	417.30450 (91020408)	405.75960 (91120719)	425.92080 (91012006)	431.30430 (91110718)
1800.0	457.84490 (91120823)	427.15250 (91050301)	425.65190 (91032324)	450.43430 (91012006)	450.20560 (91070902)
1700.0	449.51950 (91103104)	461.64660 (91010201)	453.92750 (91102801)	460.41190 (91012006)	465.44510 (91070902)
1600.0	504.53230 (91101502)	445.81130 (91010201)	450.99620 (91102801)	485.09890 (91020208)	482.68630 (91103024)
1500.0	407.43320 (91062102)	351.91460 (91103104)	433.31020 (91020408)	504.16500 (91020208)	502.53760 (91062002)
1400.0	478.75480 (91062102)	423.27200 (91101502)	391.80140 (91010201)	493.98020 (91092221)	517.82860 (91062002)
1300.0	596.67070 (91072806)	583.50780 (91101502)	430.76920 (91051804)	469.63120 (91030523)	520.36660 (91092902)
1200.0	628.12720 (91052104)	615.82510 (91062102)	578.02090 (91120823)	564.22600 (91102801)	551.85440 (91012006)
1100.0	653.22340 (91040506)	632.47860 (91072806)	496.82990 (91101502)	573.39450 (91020408)	587.02450 (91012006)
1000.0	718.23120 (91100404)	678.93800 (91052105)	544.07260 (91062102)	618.53170 (91050301)	623.80210 (91020208)
900.0	755.81920 (91090923)	727.39250 (91040506)	612.03620 (91072806)	677.61000 (91120823)	660.96530 (91120719)
800.0	813.80000 (91082605)	806.14700 (91080118)	745.48410 (91052105)	735.68840 (91101502)	743.96240 (91102801)
700.0	899.32670 (91101424)	884.00520 (91101501)	839.47260 (91040506)	753.40050 (91062102)	817.68170 (91050301)
600.0	987.33890 (91111404)	1001.01100 (91101702)	960.60050 (91101805)	913.25950 (91052105)	956.99490 (91010201)
500.0	1122.40600 (91012403)	1117.11900 (91051504)	1126.09800 (91030402)	1052.83300 (91100404)	1135.81900 (91101502)
400.0	1181.64200 (91121619)	1254.52300 (91012403)	1298.31800 (91051504)	1236.80300 (91030703)	1336.58600 (91072806)
300.0	1257.73600 (91122622)	1441.19900 (91030122)	1476.86300 (91082802)	1480.64200 (91082601)	1593.34000 (91011324)
200.0	1109.58000 (91052103)	1361.11100 (91102123)	1701.89600 (91122622)	1985.57800 (91020424)	1948.64100 (91120404)
100.0	1071.77000 (91060604)	1237.70100 (91060604)	1514.32200 (91031705)	1827.60600 (91052103)	3211.20600 (91052005)
.0	1047.75800 (91081221)	1233.02400 (91081221)	1482.31700 (91081221)	1852.43200 (91081221)	2508.49800 (91042003)
-100.0	992.35390 (91061802)	1149.83300 (91021904)	1437.37600 (91031020)	1738.49600 (91060605)	2223.60300 (91082205)
-200.0	947.04380 (91050103)	1106.65000 (91060221)	1331.79100 (91100301)	1549.44300 (91040524)	1829.17900 (91032319)
-300.0	898.54550 (91082205)	1011.44100 (91070403)	1166.17500 (91091018)	1362.49400 (91050703)	1514.45300 (91080304)
-400.0	811.88320 (91090405)	874.74630 (91091018)	1060.74000 (91123006)	1173.48100 (91062624)	1276.85100 (91121718)
-500.0	617.09770 (91091018)	798.05580 (91123006)	840.45900 (91103103)	1010.26500 (91080304)	1066.59300 (91060902)
-600.0	669.66910 (91052606)	597.06960 (91032319)	793.34310 (91102718)	852.20670 (91090404)	924.41960 (91121020)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) .00	100.00	200.00	300.00	400.00
1900.0	429.67600 (91071124)	419.52910 (91021607)	415.08620 (91052106)	375.22850 (91070903)	401.37610 (91101807)
1800.0	444.65560 (91063022)	434.02000 (91122320)	427.04610 (91052106)	394.33010 (91020108)	406.62090 (91012524)
1700.0	459.70470 (91063022)	448.09140 (91122320)	433.59620 (91052106)	425.28400 (91020108)	416.16370 (91062123)
1600.0	475.63620 (91063022)	463.03060 (91101707)	436.12200 (91052106)	439.41620 (91020108)	434.42410 (91062123)
1500.0	490.31470 (91092707)	476.79850 (91062902)	458.99980 (91092703)	456.71390 (91072605)	444.11520 (91081205)
1400.0	508.13200 (91092707)	494.30670 (91062902)	478.77350 (91092703)	465.88220 (91101807)	453.96550 (91072805)
1300.0	521.79140 (91073122)	507.87090 (91062902)	490.92490 (91092703)	474.65690 (91101807)	452.42110 (91010317)
1200.0	546.26990 (91073122)	523.81150 (91101707)	508.01390 (91092703)	490.33380 (91012524)	476.61110 (91030323)
1100.0	569.26290 (91101905)	552.11440 (91122320)	534.43100 (91092703)	513.60020 (91062123)	503.96390 (91041624)
1000.0	609.27140 (91082306)	595.43680 (91021607)	565.89660 (91070903)	567.25050 (91051106)	537.98350 (91010404)
900.0	668.35200 (91110718)	659.49560 (91122320)	625.39270 (91030405)	628.22570 (91010317)	587.01720 (91062903)
800.0	746.82140 (91103024)	744.31650 (91050523)	730.83670 (91020108)	706.09140 (91030323)	670.21590 (91123003)
700.0	850.21640 (91062002)	853.22840 (91021601)	837.03550 (91101807)	787.58720 (91010404)	742.79050 (91101824)
600.0	968.76030 (91092902)	999.92190 (91061124)	972.65350 (91062123)	927.11310 (91051901)	837.25980 (91091118)
500.0	1178.71900 (91012006)	1184.73600 (91011005)	1141.38200 (91010317)	1070.62400 (91033006)	964.50740 (91020705)
400.0	1402.92300 (91020208)	1417.59800 (91052106)	1361.09100 (91010404)	1259.21400 (91051803)	1135.37800 (91040824)
300.0	1725.24200 (91020408)	1743.90800 (91092703)	1635.60500 (91033006)	1451.43900 (91040824)	1280.95800 (91103018)
200.0	2238.02700 (91052105)	2289.22300 (91052106)	2020.16700 (91030920)	1695.11900 (91050702)	1382.45000 (91040901)
100.0	3232.43300 (91082802)	3481.73000 (91072601)	2532.99900 (91061101)	1910.52800 (91021901)	1520.99400 (91121518)
.0	4192.65300 (91052103)	4684.86000 (91092919)	3080.48300 (91013016)	2122.28100 (91082104)	1607.73000 (91092005)
-100.0	2892.27800 (91123006)	3046.78500 (91052024)	2583.04300 (91061421)	2047.49100 (91062523)	1633.65500 (91031502)
-200.0	2068.57800 (91121020)	2107.01000 (91072405)	1923.88600 (91051401)	1751.25000 (91020417)	1612.39700 (91021416)
-300.0	1626.30300 (91051123)	1641.74500 (91072405)	1505.34600 (91061904)	1486.53500 (91072322)	1451.41900 (91071101)
-400.0	1340.52100 (91052602)	1340.55600 (91041621)	1297.87900 (91072021)	1228.91600 (91052024)	1206.12100 (91081206)
-500.0	1103.18200 (91032320)	1131.51200 (91041621)	1083.30600 (91072406)	990.12900 (91042222)	1038.93900 (91100322)
-600.0	952.47300 (91032320)	957.23110 (91052605)	915.93480 (91072222)	872.43670 (91072820)	881.10620 (91070302)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 500.00	600.00	700.00	800.00	900.00
1900.0	395.59720 (91072805)	390.03380 (91041624)	375.95100 (91010404)	376.08210 (91123003)	371.91370 (91033006)
1800.0	404.62080 (91010317)	375.53030 (91041624)	365.41600 (91062903)	376.54530 (91010406)	381.34500 (91101824)
1700.0	392.99900 (91030323)	401.77680 (91010404)	403.07860 (91051901)	395.11470 (91033006)	364.37770 (91092904)
1600.0	423.64400 (91041624)	407.01470 (91010404)	400.02700 (91123003)	404.17170 (91101824)	396.32000 (91091118)
1500.0	425.93080 (91041624)	418.93260 (91051901)	414.31090 (91033006)	395.94920 (91091118)	404.75530 (91010205)
1400.0	434.54910 (91010404)	431.35690 (91123003)	424.93640 (91101824)	414.92550 (91091118)	391.93070 (91040604)
1300.0	449.31120 (91010404)	439.29930 (91010406)	424.70480 (91092904)	427.95120 (91051803)	398.66250 (91020705)
1200.0	454.58070 (91051901)	454.79810 (91033006)	445.16770 (91091118)	415.67850 (91120603)	431.90880 (91092920)
1100.0	491.13210 (91051901)	476.98050 (91092904)	461.68840 (91010205)	436.53160 (91092920)	430.17640 (91030920)
1000.0	525.37770 (91010406)	508.41410 (91091118)	471.59090 (91120603)	470.23340 (91031702)	456.69820 (91040824)
900.0	570.31840 (91101824)	549.58870 (91051803)	511.17030 (91092920)	483.80690 (91040824)	462.62100 (91011707)
800.0	638.78850 (91091118)	582.63700 (91020705)	540.72900 (91061522)	506.13610 (91011707)	480.47650 (91070503)
700.0	683.72890 (91040604)	661.99720 (91030920)	595.44230 (91011706)	543.26990 (91070503)	523.60850 (91050702)
600.0	800.32670 (91092920)	705.80770 (91011706)	628.88340 (91070503)	613.26420 (91050702)	567.82230 (91032318)
500.0	870.81980 (91050604)	735.23710 (91070503)	708.42110 (91120901)	637.71590 (91123017)	527.45150 (91040901)
400.0	918.44310 (91103018)	833.89220 (91032318)	760.92860 (91040601)	680.92880 (91011708)	641.93730 (91061101)
300.0	1082.64100 (91123017)	939.84440 (91040901)	840.77610 (91061101)	715.12300 (91021901)	640.35550 (91051921)
200.0	1189.20300 (91021901)	943.17510 (91051921)	894.62270 (91121518)	723.66620 (91121202)	703.88090 (91091022)
100.0	1236.57600 (91091022)	1048.87300 (91090401)	795.71470 (91072024)	790.31050 (91072024)	751.49220 (91072024)
.0	1329.41400 (91060903)	1146.74200 (91060903)	1000.62900 (91060903)	875.69070 (91060903)	785.93980 (91060903)
-100.0	1409.36400 (91070324)	1178.26400 (91090422)	1058.10600 (91082624)	935.43120 (91111017)	832.31950 (91092919)
-200.0	1084.56500 (91071005)	1261.99900 (91022018)	1093.11000 (91031502)	972.41860 (91070324)	871.88590 (91062521)
-300.0	1336.07900 (91092421)	1144.60400 (91062523)	796.15580 (91071005)	831.96810 (91022018)	740.53030 (91022018)
-400.0	1150.81400 (91071101)	1094.26000 (91072321)	835.95430 (91021416)	884.41700 (91062523)	597.71170 (91071005)
-500.0	980.83480 (91042406)	927.18030 (91071101)	884.47610 (91072321)	789.85660 (91092421)	766.64150 (91021416)
-600.0	872.12170 (91062004)	861.38820 (91121018)	752.49380 (91071101)	575.66350 (91072705)	727.04290 (91071804)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

*** NETWORK ID: G1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 1000.00
1900.0	343.12530 (91092904)
1800.0	377.11010 (91091118)
1700.0	378.11020 (91010205)
1600.0	385.75670 (91040604)
1500.0	373.40910 (91032405)
1400.0	394.46220 (91092920)
1300.0	415.87060 (91040605)
1200.0	410.29470 (91040824)
1100.0	413.85620 (91050604)
1000.0	422.57660 (91011707)
900.0	437.58950 (91070503)
800.0	472.85680 (91103018)
700.0	486.24460 (91032318)
600.0	527.08770 (91040601)
500.0	547.22090 (91011708)
400.0	592.85080 (91021901)
300.0	627.58930 (91121518)
200.0	634.47640 (91090401)
100.0	707.15890 (91102823)
.0	713.06230 (91111923)
-100.0	732.40840 (91050918)
-200.0	743.30250 (91090422)
-300.0	758.64230 (91031502)
-400.0	516.91520 (91031001)
-500.0	674.62380 (91062523)
-600.0	515.36930 (91082521)

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE MAXIMUM 50 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): ATSUG1 , ATSUG2 , ATSUG3 , ATSUG4 ,

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

RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE	RANK	CONC	(YYMMDDHH)	AT	RECEPTOR (XR,YR)		OF TYPE
1.	4684.86000	(91092919)	AT (	100.00,	.00)	GC	26.	4045.44800	(91082205)	AT (	.00,	.00)	GC
2.	4677.22400	(91082624)	AT (	100.00,	.00)	GC	27.	4044.39700	(91101917)	AT (	.00,	.00)	GC
3.	4669.82300	(91090422)	AT (	100.00,	.00)	GC	28.	4034.11400	(91021217)	AT (	.00,	.00)	GC
4.	4666.51100	(91070324)	AT (	100.00,	.00)	GC	29.	4021.91900	(91042003)	AT (	.00,	.00)	GC
5.	4586.58900	(91062523)	AT (	100.00,	.00)	GC	30.	4020.78800	(91060605)	AT (	.00,	.00)	GC
6.	4579.78200	(91021416)	AT (	100.00,	.00)	GC	31.	4014.24900	(91072324)	AT (	.00,	.00)	GC
7.	4560.65200	(91052101)	AT (	100.00,	.00)	GC	32.	4000.56100	(91081221)	AT (	.00,	.00)	GC
8.	4558.85600	(91050918)	AT (	100.00,	.00)	GC	33.	3995.01800	(91090405)	AT (	.00,	.00)	GC
9.	4549.13500	(91082104)	AT (	100.00,	.00)	GC	34.	3982.21100	(91041924)	AT (	.00,	.00)	GC
10.	4547.34600	(91111017)	AT (	100.00,	.00)	GC	35.	3980.80900	(91021902)	AT (	.00,	.00)	GC
11.	4545.50900	(91110620)	AT (	100.00,	.00)	GC	36.	3978.96700	(91031020)	AT (	.00,	.00)	GC
12.	4544.09100	(91122018)	AT (	100.00,	.00)	GC	37.	3978.21200	(91060503)	AT (	.00,	.00)	GC
13.	4539.87000	(91022018)	AT (	100.00,	.00)	GC	38.	3975.57800	(91120718)	AT (	.00,	.00)	GC
14.	4533.85100	(91062521)	AT (	100.00,	.00)	GC	39.	3973.67900	(91070403)	AT (	.00,	.00)	GC
15.	4533.61300	(91013016)	AT (	100.00,	.00)	GC	40.	3970.73100	(91101919)	AT (	.00,	.00)	GC
16.	4532.86500	(91031502)	AT (	100.00,	.00)	GC	41.	3957.74800	(91080305)	AT (	.00,	.00)	GC
17.	4192.65300	(91052103)	AT (	.00,	.00)	GC	42.	3950.34300	(91060604)	AT (	.00,	.00)	GC
18.	4148.33800	(91122624)	AT (	.00,	.00)	GC	43.	3950.15300	(91080303)	AT (	.00,	.00)	GC
19.	4120.19400	(91040524)	AT (	.00,	.00)	GC	44.	3948.93200	(91080124)	AT (	.00,	.00)	GC
20.	4114.26200	(91041605)	AT (	.00,	.00)	GC	45.	3939.95300	(91092422)	AT (	.00,	.00)	GC
21.	4106.11900	(91031705)	AT (	.00,	.00)	GC	46.	3933.46000	(91032923)	AT (	.00,	.00)	GC
22.	4086.29300	(91111219)	AT (	.00,	.00)	GC	47.	3931.96100	(91042404)	AT (	.00,	.00)	GC
23.	4082.53400	(91102123)	AT (	.00,	.00)	GC	48.	3913.41500	(91112904)	AT (	.00,	.00)	GC
24.	4049.25800	(91100301)	AT (	.00,	.00)	GC	49.	3911.75100	(91100204)	AT (	.00,	.00)	GC
25.	4045.57300	(91091018)	AT (	.00,	.00)	GC	50.	3909.74800	(91090306)	AT (	.00,	.00)	GC

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

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

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	311.52670 AT (	100.00, 100.00, 42.67, 1.00)	GC	G1
	2ND HIGHEST VALUE IS	157.87310 AT (	100.00, 200.00, 48.77, 1.00)	GC	G1
	3RD HIGHEST VALUE IS	105.62420 AT (	100.00, 300.00, 51.82, 1.00)	GC	G1
	4TH HIGHEST VALUE IS	96.39746 AT (	.00, 100.00, 39.62, 1.00)	GC	G1
	5TH HIGHEST VALUE IS	82.34612 AT (	.00, 200.00, 38.10, 1.00)	GC	G1
	6TH HIGHEST VALUE IS	79.76321 AT (	.00, .00, 41.15, 1.00)	GC	G1

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

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

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	4684.86000	ON 91092919:	AT (100.00, .00, 41.15, 1.00)	GC	G1

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

*** MODELING OPTIONS USED: CONC RURAL ELEV FLGPOL DFAULT

*** Message Summary For ISC2 Model Execution ***

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

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 263 Informational Message(s)

A Total of 263 Calm Hours Identified

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

******** WARNING MESSAGES ********
*** NONE ***

****
*** ISCST2 Finishes Successfully ***
****