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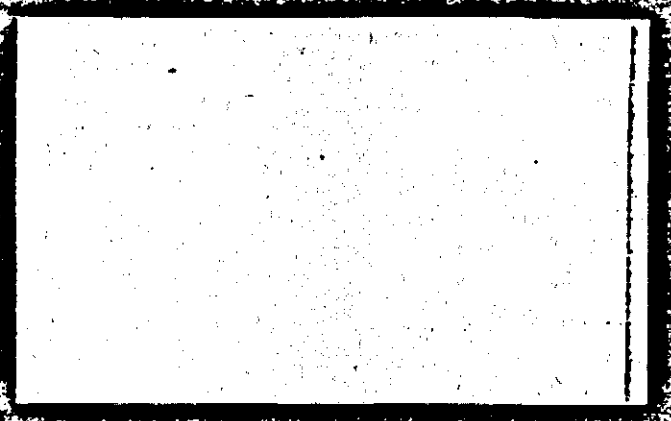
REM III PROGRAM

REMEDIAL PLANNING ACTIVITIES AT SELECTED UNCONTROLLED HAZARDOUS SUBSTANCE DISPOSAL SITES



EPA CONTRACT 68-01-7250

EBASCO SERVICES INCORPORATED

FINAL TECHNICAL MEMORANDUM

ARSENIC VOLATIZATION, CAPTURE, AND RISKS RESULTING FROM INCINERATION OF THE UPPER VAULT WASTE

FOR

WHITMOYER LABORATORIES SITE
LEBANON COUNTY, PENNSYLVANIA

SEPTEMBER 1990
W.A. NO. 200-3LC9

NOTICE

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EBASCO SERVICES INCORPORATED

EBASCO

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September 26, 1990
RM/III/90-1275
No Response Required

Mr. Anthony Dappolone, P.E.
U.S. Environmental Protection Agency
Region III
841 Chestnut Street
Philadelphia, Pennsylvania 19107

Subject: REM III PROGRAM - EPA CONTRACT NO. 68-01-7250
WHITMOYER LABORATORIES SITE
LEBANON COUNTY, PENNSYLVANIA
FINAL UPPER VAULT WASTE INCINERATION MEMORANDUM

Dear Mr. Dappolone:

In accordance with Work Assignment No. 200-3LC9, the REM III Project Team is pleased to submit 15 copies (14 bound and 1 unbound) of this Final Technical Memorandum for the Whitmoyer Laboratories Site entitled "Arsenic Volatilization, Capture, and Risks Resulting from Incineration of the Upper Vault Waste." This memorandum was prepared per your instruction to develop a realistic estimate of the human health risks resulting from the proposed onsite incineration of the upper vault wastes.

If you have any questions regarding this submittal, please call me; or Mr. John Trepanowski, the Site Manager, at (215) 971-0900.

Very truly yours,

John F Gorgol, P.E.
Regional Manager, Region III

JFG/JJT/kg

Enclosures

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File: W A No. 200-3LC9 (1S17/563)

SEPTEMBER 26, 1990

FINAL

TECHNICAL MEMORANDUM

ARSENIC VOLATIZATION, CAPTURE, AND RISKS RESULTING FROM INCINERATION OF THE UPPER VAULT WASTE

WHITMOYER LABORATORIES SITE
LEBANON COUNTY, PENNSYLVANIA

EPA WORK ASSIGNMENT NUMBER 200-3LC9
UNDER
CONTRACT NUMBER 68-01-7250

PREPARED BY:
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PITTSBURGH, PENNSYLVANIA

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1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

NUS Corporation (NUS) under contract to Ebasco Services Incorporated (Ebasco), prepared this Technical Memorandum for the U.S. Environmental Protection Agency (EPA), under Work Assignment Number 200-3LC9, Contract Number 68-01-7250. This document was prepared in response to public comments received on EPA's Whitmoyer Laboratories Site preferred alternative for remediation of the upper vault waste as presented in the Proposed Plan for Operable Unit Two (EPA, 1990). The preferred alternative includes onsite incineration of the upper vault waste, followed by fixation and offsite landfilling of the incineration residuals (see Figure 1-1).

The comments received on the alternative dealt with concerns of significant arsenic volatilization from the waste and inadequate capture of the arsenic in the air pollution control (APC) devices. Under this scenario, potentially significant risk to human health and the environment may result. The modeling approach for incinerator emissions was also questioned. Each of these issues will be evaluated in further detail in this report.

1.2 PREVIOUS ARSENIC VOLATILIZATION/RISK ESTIMATES

The Proposed Plan (EPA, 1990) and Feasibility Study (FS) report (Ebasco, 1990) addressing the upper vault wastes provided estimates for volatilization of arsenic based on treatability testing conducted on the lower vault wastes. The volatilization of arsenic, in the presence of cement and/or lime at the temperatures considered, was observed to range from less than 1 percent to about 9.3 percent. Five percent was selected as a representative average. The APC train was not identified in detail in these documents. Potentially applicable devices cited included a baghouse, high efficiency particulate air (HEPA) filter, forced flux condenser, electrostatic precipitator, and a packed tower absorber. Estimated removal efficiencies for the volatilized arsenic using this equipment ranged from about 86 percent to about 99.6 percent. The Industrial Service Complex Short Term (ISCST) air quality model was then used to model the dispersion of the stack gases under these two removal efficiency scenarios. Both inhalation and deposition of arsenic were considered. Based on the model output, a risk assessment calculation was performed. The risk estimates ranged from about 2×10^{-4} excess lifetime cancer risk (ELCR) for the 86 percent removal scenario and 1×10^{-5} ELCR for the 99.6 percent removal. A risk range of 1×10^{-4} ELCR to 1×10^{-6} ELCR is considered acceptable for Superfund cleanups (40 CFR Part 300).

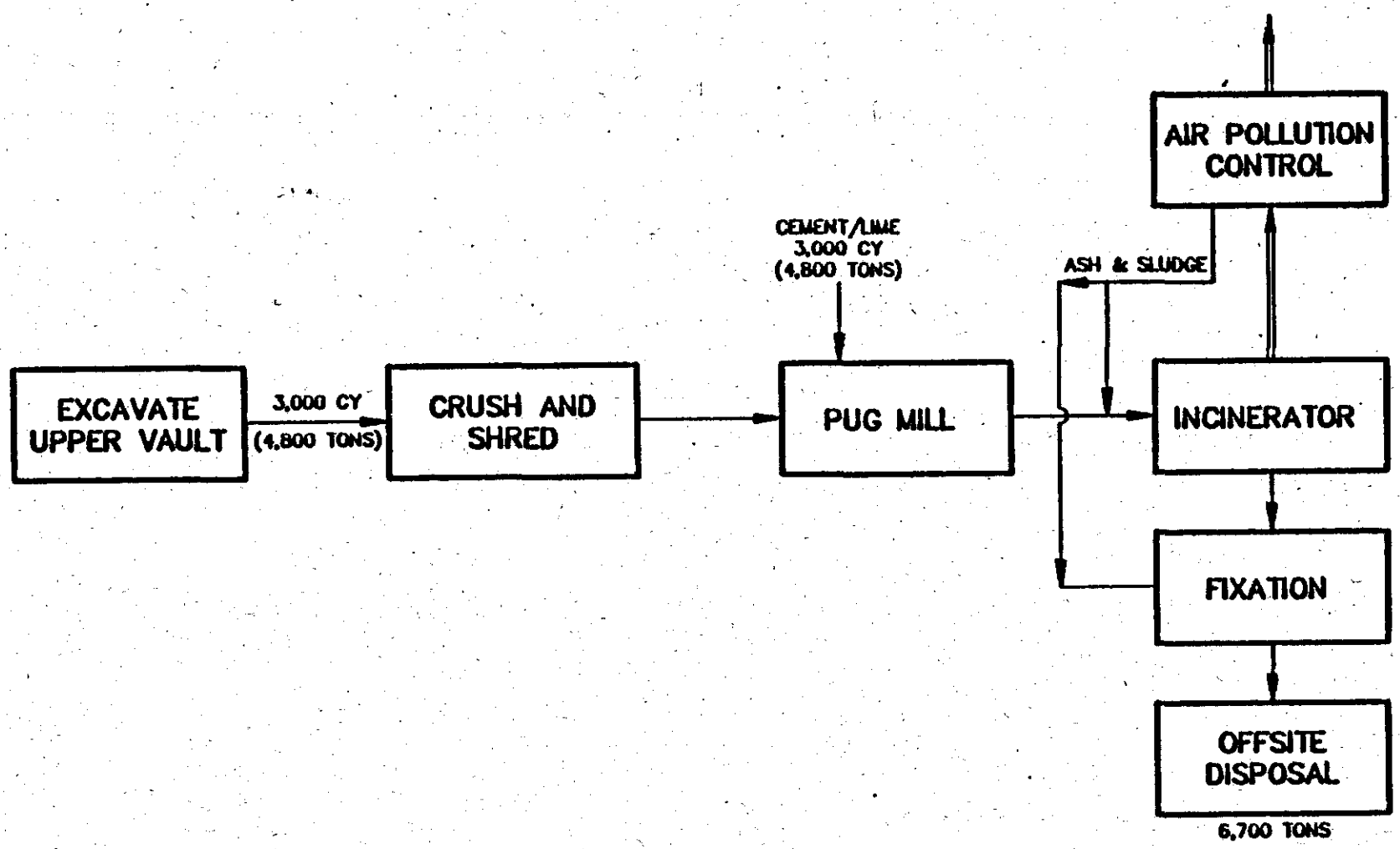

FIGURE 1-1
INCINERATION/FIXATION OF UPPER VAULT WASTES
WHITMOYER LABORATORIES SITE, LEBANON COUNTY, PENNSYLVANIA

1.3 REPORT ORGANIZATION

This technical memorandum is comprised of five sections and supporting appendices. The organization and content are as follows:

- Section 1.0 summarizes the scope and previous arsenic volatilization, capture, and risk estimates.
- Section 2.0 summarizes the properties and assumptions for characterizing the upper vault waste. Additional details are presented for the incineration and fixation of the arsenic and destruction of the organics.
- Section 3.0 presents common APC equipment and demonstrated arsenic removal efficiencies.
- Section 4.0 presents arsenic emissions dispersion modeling, using the APC removal efficiencies presented in Section 3.0.
- Section 5.0 presents the risk assessment for the proposed incineration of the upper vault waste, based on the dispersion modeling. Both the inhalation and soil ingestion pathways are evaluated.

2.0 ARSENIC VOLATILIZATION DURING INCINERATION

2.1 CHARACTERIZATION AND ASSUMPTIONS

The upper vault waste is believed to consist of about 3000 CY of a mixture of drummed and undrummed aniline still bottoms, spent activated carbon used for decolorization, diaminodiphenyl arsonic acid contaminated soils, and miscellaneous laboratory wastes. A summary of available analytical data is presented in Table 2-1. The Whitmoyer Laboratories Site RI report (Ebasco, 1989) presents the full range of available data.

In order to proceed with the evaluation of thermally treating the wastes, several assumptions were developed. These assumptions and other characterization parameters are presented in Table 2-2 and discussed below. The volume estimate is based on the dimensions of the vault. As a result, this estimate should be fairly accurate. The density value is based on density measurements of the lower vault waste. For the upper vault waste this value may be considered high, because of anticipated voids in the bulk waste and the lower density of aniline tars and carbon. The arsenic concentration was selected as a mid-range of measured values. The nitrogen-based organics value is based on the aniline and n-nitrosodiphenylamine concentrations measured in a sample of the still bottoms material. The total organic and moisture values are assumed mid-range values. Actual values may be higher or lower. The inerts are assumed to be the balance of material in the upper vault. The BTU value is based on a typical heat of combustion for organics, assuming the material is 50 percent organic. The RCRA classifications are based on wastes reportedly disposed in the vault and analytical testing.

2.2 THERMAL AND CHEMICAL FIXATION OF ARSENIC

No direct treatability study results are available for the upper vault waste. As a result, fixation treatability results from a study conducted on the lower vault wastes (Ebasco, 1990) are used herein. The sample evaluated for the lower vault treatability study likely contained a portion of the upper vault organics, as an oil-like liquid (potentially aniline still bottoms) was observed on the surface of the sample. This oil layer was mixed into the sludge prior to conducting the treatability study. The detailed results of this study are presented in the FS report (Ebasco, 1990).

A comparison of the major characteristics of the upper vault wastes with the lower vault wastes are summarized as follows:

Parameter	Upper Vault Waste	Lower Vault Waste
Arsenic	12%	16%
Total Organics	50%	4%

TABLE 2-1

ANALYTICAL CHARACTERIZATION OF UPPER VAULT WASTES
WHITMOYER LABORATORIES SITE
LEBANON COUNTY, PENNSYLVANIA

Parameter	Aniline Still Bottoms*		Spent Carbon** As Received (mg/Kg)	Soil (mg/Kg)
	As Received (mg/Kg)	TCLP*** (mg/L)		
Arsenic	120,000	1,630	170,000	44,000
Cadmium	ND	1.1	1.53	1.64
Aniline	110,000	NM	6,500	50
N-Nitrosodiphenylamine	47,000	NM	NM	NM
PCE	ND	NM	NM	NM

NM Not Measured.
ND Note Detected.

* Source: RI report (Ebasco, 1989).
** Source: Whitmoyer Laboratories memorandum dated 12/17/82.
*** Toxic Characteristic Leaching Procedure.

TABLE 2-2

TREATABILITY CHARACTERIZATION AND ASSUMPTIONS
FOR THE UPPER VAULT WASTES
WHITMOYER LABORATORIES SITE
LEBANON COUNTY, PENNSYLVANIA

Volume	3,000 CY
Density	120 lb/CF
Arsenic	12%
Nitrogen-based organics	14%
Total organics	50%
Moisture	10%
Inerts (soils, drums, etc.)	28%
BTU content	7,500 BTU/lb
RCRA classifications	K101, K102, D004, D006

In general, the upper vault waste may be considered to contain slightly less arsenic, but significantly more organics than the lower vault waste.

Results from the cement-and/or lime-based fixation of the lower vault are summarized as follows:

Cement and Lime to Sludge Ratio	Roasting Temperature °F	Percent Arsenic Volatilization	TCLP Leachate Results (As mg/L)
0	No roasting	0	2,300
0	1,300	37	1,500
1 (cement only)	1,100	2.7	11
1 (lime only)	1,300	<1	1.6
1.3 (cement/lime)	1,300	3.8	1.8
2 (cement/lime)	1,300	<1	1.3
3 (cement only)	1,300	9.2	1.2

One general conclusion of this study was that the use of cement and/or lime significantly reduced the volatilization of arsenic. The formation of a relatively nonvolatile calcium-arsenic compound is believed to cause this reduced volatility. This formation may occur in the solid waste phase as well as from gas phase adsorption of arsenic onto calcium particles. A second conclusion was that cement and/or lime fixation with a preroasting step resulted in 5 to 360 times less leachable arsenic in the treated waste than cement and/or lime fixation treatment without roasting.

2.3 INCINERATION

Common incinerators are typically based on a two chamber system, the primary chamber and the secondary chamber. The main function of the primary chamber is to volatize organics present in the waste at moderately high temperatures (1100 to 1300°F). For the upper vault waste, this is also the location where the insoluble calcium-arsenic compounds would be formed. In the secondary chamber, the primary chamber offgas temperature is elevated to about 1800°F in the presence of excess oxygen. This would complete the destruction of the toxic organic compounds, with an end product of water, carbon dioxide, and salts. Destruction of in excess of 99.99 percent of the principal organic compounds is commonly achieved in incinerators.

The major constituents anticipated to be found in the upper vault wastes are arsenic compounds, nitrogen-based organics, and other organics. The types of arsenic believed present in the upper vault waste are organic-arsenic compounds and sodium-arsenic compounds. The organic-arsenic compounds would be expected to be more volatile than the inorganic arsenic

compounds. However, some of the inorganic arsenic compounds would also be expected to break down into relatively volatile arsenic trioxide (As_2O_3) as well. Offsetting this volatilization in the primary chamber would be the presence of calcium (from the cement and/or lime), which would have the tendency to form very low volatility arsenic salts. There is also the potential for arsine (AsH_3), a gas at room temperature, to form in the primary chamber.

In the secondary chamber, the organically-bound arsenic and arsine would be converted to As_2O_3. Also, because of turbulence in the primary chamber, dust containing calcium would also be conveyed to the secondary chamber. As a result, gas phase conversion of As_2O_3 to relatively nonvolatile calcium-arsenic compounds would be expected to occur in the secondary chamber. The nitrogen-based organic compounds would be expected to form nitrous oxides (NO, N_2O, NO_2, etc.,) also referred to as NO_x. Also, chlorinated compounds, if present, would form hydrogen chloride (HCl).

The ash from the primary chamber would be allowed to air cool, tested for arsenic leachate concentrations (TCLP) to demonstrate compliance with RCRA land disposal restrictions, hydrated (if necessary), and disposed of offsite in a hazardous waste landfill. Ash handling considerations for the APC devices are discussed in Section 3.1.3.

3.0 AIR POLLUTION CONTROL DEVICES

3.1 DESCRIPTION

Two general types of air pollution control (APC) devices considered are dry and wet systems. Dry systems operate in the absence of liquid water and wet systems operate in the presence of liquid water.

3.1.1 Dry Systems

Dry systems are used primarily for particulate removal, although some removal of vapor phase constituents may occur because of adsorption onto particles. During incineration of the upper vault waste, dry systems could be used for removal of particulate carryover from the incinerator and condensed arsenic. Three types of dry APC devices discussed here are cyclones, electrostatic precipitators and baghouses. Free moisture in these units can cause significant operating problems. As a result, they are typically operated above the dewpoint of water, with a very dry dust being generated.

Cyclone - A cyclone is generally a medium to low efficiency, low cost dust precleaning device. The dust-laden gases are forced to swirl around inside a cylindrical body. Centrifugal forces cause the particulates to move toward the outer wall. Air exits the cyclone from the inner vortex, while particulates migrate to the bottom of the unit for removal.

Electrostatic Precipitators - Electrostatic precipitators (ESPs) are generally high efficiency particulate removal devices, with removal efficiencies of about 99 percent to 99.8 percent. In ESPs, particulates and gases pass between positively and negatively charged plates and/or electrodes. The naturally (or induced) charged particles migrate to the plates/electrodes where they are collected. A variation of ESPs is wet ESPs, in which water is sprayed into the unit to improve particulate removal.

Baghouse - Baghouses are generally a high efficiency particulate removal device, with removal efficiencies of 99.9 percent to 99.99 percent. In the baghouse, the air passes through a fabric filter. Removal mechanisms include filtering, settling, and electrical attraction. Precoating of the bag typically is required for high percentage particulate removal. For cleaning, generally, the air flow is reversed and/or the bag shaken to dislodge the collected dust. The dust is then removed from the bottom of the bag. A HEPA filter is a variation on baghouses in which a finer cloth is used.

3.1.2 Wet Systems

Wet systems are used for both particulate and vapor phase constituent removal. During incineration of the upper vault waste, wet systems could be used for particulate removal, vapor-

phase arsenic removal, and removal of other gases (e.g., NO_x, HCl). The contaminant removal efficiencies of wet systems can be significantly improved by increasing air-water contact and adding additional units. Theoretically, almost any degree of removal desired can be achieved. Practical limits are based on economics. Wet systems require a treatment system for the liquid blowdown. Three types of wet systems considered are venturi scrubbers, spray scrubbers, and packed tower scrubbers. Wet ESPs are discussed briefly in Section 3.1.1.

Venturi - The general concept of venturi scrubbers is to contact the air stream with a liquid (generally water) through converging and diverging sections. The particulates become slurried by impacting the liquid. Gases are removed by absorption.

Spray Scrubbers - Spray scrubbers utilize nozzles to inject a water mist into the gas stream. The water is collected at the bottom of the chamber and demister, and recycled and/or discharged for subsequent treatment.

Packed Towers - Packed towers utilize packing supported in a column to achieve good air-to-water contact. Water is distributed over the packing and flows down through it. The air stream typically is introduced near the bottom of the packing and flows upward. Particulate removal efficiencies for packed towers are typically not as good as for other APC devices. Additionally, high particulate loadings can result in plugging problems. However, gas phase constituent removal can typically be achieved more cost effectively than with the other wet scrubbers.

3.1.3 Ash and Sludge Considerations

Each of the APC devices would generate either an ash or a wet sludge. The solids in this material would be expected to contain arsenic trioxide, calcium-arsenic compounds, lime and/or cement, and other dusts generated from the incineration process. Based on the process used, the presence (or absence) of calcium and the temperature history, these solids may or may not leach arsenic above RCRA Land Disposal Restriction (LDR) standards. If the leachate concentrations are at an acceptable level, the solids may be directly landfilled with the incinerator primary chamber ash. Otherwise, the solids may be introduced back into the primary chamber with the untreated waste for subsequent fixation, or treated with the lower vault waste using chemical fixation alone.

3.2 DEMONSTRATED ARSENIC REMOVAL IN APC DEVICES

3.2.1 Wet ESP and Hydrosonic Scrubber

In 1989, tests were conducted at a pilot-scale incineration test facility to evaluate the APC performance of a two-stage ESP and Hydro-sonic wet scrubber on particulate, metals and HCl

emissions (Radian, 1989). Fly ash, aluminum sulfate, carbon tetrachloride, and monosodium methylarsonic acid (an organic-arsenic compound) were fed to the incinerator fired at 1600°F. Offgas temperatures were quenched to about 180°F prior to the APC devices. The removal efficiencies of these units are summarized below.

Parameter	Influent Concentration (PPM-wt)	WET ESP Percent Removal	Hydro-sonic Scrubber Percent Removal
Particulates	3,800 19,000	99.2% 99.8%	99.6% 99.8%
Arsenic (MSMA)	15	99.94%	99.84%

The temperatures in these units varied from about 145°F for the ESP to 175°F for the Hydro-sonic scrubber. An evaluation of vapor-phase arsenic, similar to that presented in the FS, indicates that a calculated saturated vapor pressure of arsenic at 160°F is about 22 PPM-wt. (i.e., at 15 PPM, the arsenic should be all vapor phase). Therefore, these results indicate that either vapor phase arsenic is being removed at these levels, or particle adsorption followed by particle removal is resulting in this reduction. In either case, there should be similar dust (with high calcium) levels under the proposed system and similar removals should be achievable if these units are employed.

3.2.2 Chemical Waste Management - Fixed Based Units

Chemical Waste Management owns and operates fixed-base incinerators at Port Arthur, Texas, and Sauget, Illinois. Arsenic removal data collected during the trial burns (Valenti, 1990) on these units are summarized as follows:

Location	APC Devices	Arsenic Removal
Port Arthur	4 stage wet electro-static precipitator	99.9%
Sauget	Spray dryer, baghouse	99.6%

3.2.3 Ogden Environmental - Mobile Unit

Ogden Environmental Services, Inc. owns and operates fixed-base and transportable fluidized bed incinerators. Based on conversations with Ogden personnel concerning this waste (Sexton, 1990), Ogden would expect to achieve the RCRA particulate standard of 0.08 grams/DSCF using a venturi scrubber/packed tower APC device. Based on calculations presented in Appendix 1, approximately 86 percent of the arsenic would be removed in this stage. A second stage Wet ESP would

then remove an additional 95 percent of the arsenic. The calculated combined arsenic removal would be 99.3 percent.

3.2.4 Weston - Mobile Unit

Weston Services, Inc. owns and operates transportable incinerators. Arsenic removal efficiencies across the APC devices were measured to exceed 98.8 percent during trial burns (Cosmos, 1990). The waste stream tested was relatively low in arsenic; no arsenic was detected in the treated offgas.

3.2.5 Copper Smelting

An evaluation of APC devices for capture of arsenic from copper smelters was conducted by the EPA in 1982 (EPA, 1983). The results of this evaluation are summarized as follows:

APC	Arsenic			
	Influent Concentration (PPM-Wt)	Effluent Concentration (PPM-Wt)	Percent Removal	Temperature °F
Baghouse (1) (2)	240 2,400	0.8 49	99.7% 95.7%	187 169
Spray chamber/ baghouse	740	8	98.9%	214
Electrostatic precipitator	Not measured	19	--	207
Spray chamber/ESP	260	5	98.1%	219
Venturi scrubber	22	0.3	98.4%	102
ESP/venturi scrubber/ packed bed scrubber	813	1.25	99.8%	153

3.2.6 Summary

Based on the demonstrated arsenic removal efficiencies presented above, existing APC devices (namely a wet ESP in combination with other APC) should be able to remove about 99.3 percent of the arsenic volatilized. Also, if required, additional arsenic removal could likely be achieved by including additional APC devices. The estimated arsenic emission rate is 400 pounds total over 90 days of remediation (0.028 g/sec.). This corresponds to 0.037 g/sec. of arsenic trioxide. Wet scrubbers should also be able to achieve 99 percent removal of acid gases such as NO_x and HCl.

4.0 AIR QUALITY AND DRY DEPOSITION MODELING

4.1 METHODOLOGY

The purpose of this modeling effort was to estimate the maximum annual quarterly and 1-hour ambient concentrations for arsenic trioxide and nitrogen oxide, and also the maximum annual and 1-hour dry deposition rate for arsenic trioxide as particulate matter, given the APC removal efficiencies presented in Section 3.0. Modeling methodology was based on two possible size distributions for the arsenic trioxide emissions as particulate matter. The lower bound size distribution was based on a mean particle diameter of 0.5 microns, while the upper bound size distribution was based on a mean diameter of 2.0 microns. Operating parameters for each scenario are given below:

Flow Rate = 7,520 scfm (3.55 m^3/sec.)
Stack Diameter = 1.2 meters
Stack Temperature = 344.3° K
Stack Height = 65 meters (maximum GEP)
Base Elevation = 146.3 meters

Pollutant Emission Rates:
Arsenic Trioxide = 0.037 g/sec.
Nitrogen Oxide = 0.367 g/sec.

The emission rate for arsenic trioxide was based on an estimated operating period of 1,800 hours per quarter and a total of 400 pounds of arsenic per quarter.

The emission rate for nitrogen oxide was based on an in-stack concentration of 39 ppm by volume, based on a 99 percent APC removal efficiency.

4.2 MODEL SELECTION

The Industrial Source Complex Short Term (ISCST) air quality model was used to calculate ambient concentrations and dry deposition rates.

The ISCST dispersion model combines various algorithms that can be used to assess the air quality impact from a wide variety of sources in flat or rolling terrain. ISCST is an EPA-approved model that can be used to estimate ambient concentrations and dry deposition rates in rural and urban environments. In this exercise the ISCST model is run in the rural mode based on an evaluation of USGS topographic maps depicting the land use characteristics within 3 km of the Whitmoyer Site. Annual quarterly average concentrations and dry deposition rates were determined on the basis that the incinerator operated no more than one seasonal period per year. Maximum concentrations and dry deposition rates were determined for each seasonal period of each annual meteorological period.

4.3 MODEL OPTIONS

The ISCST model contains a number of options that are designed to consider complicated source configurations, emission characteristics and special atmospheric effects. In this study the regulatory default option was selected. This option automatically selects stack tip downwash, final plume rise, buoyancy induced dispersion, the vertical potential temperature gradient and default wind profile exponents.

4.4 SOURCE EMISSIONS

Emissions parameters for this study were based on the operating conditions described previously above. All source emissions were assumed to be emitted over the period of approximately 1,800 hours/season. Separate ISCST model runs were made for each season to determine the maximum "worst case" quarterly and 1-hour impact during the year.

The ISCST model requires information on the particle size distribution of the source emissions in order to calculate gravitational settling and dry deposition. For the purpose of this study the following assumptions were made regarding the arsenic trioxide emissions from the incinerator.

- Two mean particle diameters of 0.5 microns (lower bound) and 2.0 microns, (upper bound) as described above.
- Gravitational settling velocities of 0.000027 meters/sec. for the 0.5 micron particles and 0.00044 meters/sec. for the 2.0 micron particles. These settling velocities were based on a 3.7 gram/cm^3 density for arsenic trioxide.
- Reflection coefficients of 0.99 for the 0.5 micron particles and 0.92 for the 2.0 micron particles.

Due to the uncertainty of the particle size distribution of the arsenic trioxide emissions, a lower bound and a upper bound mean particle diameter was selected to bracket the potential impacts of each operating scenario. The selected mean particle diameters were based on available information regarding control technology collection efficiency. The gravitational settling velocity and reflection coefficient for each particle diameter was based on guidance provided in the ISCST User's Guide, (EPA, 1987).

4.5 METEOROLOGICAL DATA

The meteorological database chosen for this study consisted of five years (1984 through 1988) of hourly surface data from the Harrisburg, Pennsylvania National Weather Service Reporting Station. Corresponding upper air data used to calculate mixing heights during the same time period was obtained from the Sterling, Virginia upper air station. These two databases were

preprocessed through the RAMMET program to create the necessary input file for ISCST.

Quarterly meteorological periods were selected for each model run by using the IDAY parameter in the ISCST input file. The quarterly periods corresponded to the normal 4 annual seasons; winter, spring, summer and fall.

4.6 RECEPTOR NETWORK

Initial model calculations of ambient concentrations and dry deposition rates were based on a 250 meter Cartesian grid interval extending out 2.5 km from the incinerator stack. This initial modeling run was used to identify potential hot spot zones for both contaminants.

All hot spot zones identified in the initial modeling runs were then analyzed further using a 50 meter Cartesian grid interval to identify the maximum quarterly hand and 1-hour ambient concentrations and dry deposition rate for arsenic trioxide.

Receptor elevations were taken from the USGS Richland and Bethel quadrangles. All receptor elevations within the 2.5 km grid were well below the stack top elevation of 693 feet.

4.7 MODELING RESULTS

ISCST modeling results for maximum ambient arsenic trioxide and nitrogen oxide concentrations and maximum arsenic trioxide deposition rates are given in Tables 4-1 and 4-2, respectively. Results are given for maximum annual quarterly and 1-hour time periods. In addition, results for arsenic trioxide include impacts based on lower bound and upper bound mean particle diameters of 0.5 and 2.0 microns. Concentrations are reported as $\mu g/m^3$, whereas deposition rates are given as $grams/m^2$. Computer printouts of the ISCST model results presented in Tables 4-1 and 4-2 are contained in Appendix 2 of this report.

The maximum quarterly concentration of arsenic trioxide was 0.0174 $\mu g/m^3$ for the lower bound case at receptor location x = 1,150 m, y = -750 m in the second quarter of 1984. The maximum hourly arsenic trioxide concentration was calculated to be 0.511 $\mu g/m^3$ for the lower bound case in the fourth quarter of 1984. The hourly maximum occurred at receptor location x = -250 m, y = -800 m on day 283, hour 17.

Maximum quarterly and hourly concentrations of nitrogen oxide were calculated to be 0.1742 and 5.10 $\mu g/m^3$, respectively, as receptor locations x = 1,150 m, y = -750 m and x = -250 m, y = -800 m. The maximum quarterly concentration occurred in the second quarter of 1984. The hourly maximum concentration of nitrogen oxide occurred on day 283, hour 17 in the fourth quarter of 1984.

TABLE 4-1

MAXIMUM AMBIENT ARSENIC TRIOXIDE AND NITROGEN OXIDE CONCENTRATIONS FOR THE WHITMOYER INCINERATION UNIT

ARSENIC TRIOXIDE

1	QUARTERLY Maximum Lower Bound Concentration: 0.0174 µg/m^3 Receptor Location: x = 1,150 m, y = -750 m Meteorological Period: 2nd Quarter, 1984 Maximum Upper Bound Concentration: 0.0169 µg/m^3 Receptor Location: x = 1,150 m, y = -750 m Meteorological Period: 2nd Quarter 1984
2	HOURLY Maximum Lower Bound Concentration: 0.511 µg/m^3 Receptor Location: x = -250 m, y = -800 m Meteorological Period: 4th Quarter, 1984 Maximum Upper Bound Concentration: 0.496 µg/m^3 Receptor Location: x = -250 m, y = -750 m x = -250 m, y = -800 m Meteorological Period: 4th Quarter, 1984, Day 283, Hour 17

NITROGEN OXIDE

1	QUARTERLY Maximum Concentration: 0.1742 µg/m^3 Receptor Location: x = 1,150 m, y = -750 Meteorological Period: 2nd Quarter, 1984
2	HOURLY Maximum Concentration: 5.10 µg/m^3 Receptor Location: x = -250 m, y = -800 m Meteorological Period: 4th Quarter, 1984 Day 283, Hour 17

TABLE 4-2

MAXIMUM ARSENIC TRIOXIDE DEPOSITION RATES FOR THE WHITMOYER INCINERATION UNIT

1	QUARTERLY *Maximum Lower Bound Concentration: 0.0001 grams/m^2 Receptor Location: x = 300 m, y = -450 m Meteorological Period: 3rd Quarter, 1987 *Maximum Upper Bound Deposition: 0.0012 grams/m^2 Receptor Location — Meteorological Period x = 400 m, y = -300 m — 2nd Quarter, 1984 x = 350 m, y = -250 m — 3rd Quarter, 1984 x = 300 m, y = -450 m — 3rd Quarter, 1987
2	HOURLY *Maximum Lower Bound Deposition: 3.2 x 10^{-6} grams/m^2 Receptor Location: x = 100 m, y = -600 m Meteorological Period: 4th Quarter, 1987 Day 304, Hour 15 *Maximum Upper Bound Deposition: 0.00006 grams/m^2 Receptor Location — Meteorological Period x = -100 m, y = -300 m — 2nd Quarter, 1984, 1988 x = 100 m, y = 250 m — 3rd Quarter, 1984 x = -50 m, y = -300 m — 2nd Quarter, 1985, 1987 3rd Quarter, 1985, 1988 x = -150 m, y = -250 m — 2nd Quarter, 1986 3rd Quarter, 1987

Arsenic trioxide deposition rates given in Table 4-2 indicate that the maximum quarterly deposition rate occurred with the upper bound mean diameter case. A maximum of 0.0012 grams/m^2 was reported at three different receptor locations for the second quarter in 1984 and the third quarters of 1984 and 1987.

The maximum hourly deposition of arsenic trioxide also occurred for the upper bound mean particle diameter. A maximum of 0.00006 g/m^2 was reported at four different receptor locations. Maximum hourly deposition rates of 0.00006 g/m^2 were generally reported in second and third quarters of each annual meteorological period with the exception of 1986.

5.0 RISK ASSESSMENT

5.1 ARSENIC

The risk assessment assumptions and calculations presented in this report are identical to those used in the Feasibility Study (Ebasco, 1990). In summary, two pathways for contacting the arsenic were developed. The first pathway is direct arsenic inhalation during the 90-day incinerator operating period. The second pathway is arsenic deposition onto the soils and accidental ingestion of these soils over a resident's 70-year lifetime. Arsenic deposition was converted to soil concentrations by assuming that the arsenic is mixed into the top 12 inches of soil and remains there over the 70-year period. For the risk assessment calculations, a resident was assumed to be at the location of the maximum, 90-day average arsenic air concentration or soil deposition. These calculations are presented in Appendix 3.

The results of the risk assessment are summarized as follows:

	Excess Lifetime Cancer Risk	Hazard Quotient
Inhalation	2×10^{-7}	NA*
Soil Ingestion	8×10^{-9}	<0.1

* An arsenic reference dose is not available for the inhalation route.

For Superfund sites, a maximum acceptable excess lifetime cancer risk is considered to range from 1×10^{-6} to 1×10^{-4} and a maximum acceptable hazard quotient is considered to be 1.0. Therefore, the estimates indicate that significant risk to human health and the environment should not result from arsenic emissions during the onsite incineration of the upper vault wastes. In addition, the arsenic emission rate to the atmosphere can be increased by a factor of 5 to 500 without resulting in unacceptable risks.

5.2 NO_x

The dispersion modeling for NO_x predicted a quarterly maximum average NO_x concentration of 0.17 $\mu g/m^3$ and a hourly maximum concentration of 5.1 $\mu g/m^3$. Both of the predicted concentrations are significantly less than the annual average standard for NO_x of 100 $\mu g/m^3$ under the Clean Air Act - National Ambient Air Quality Standards.

REFERENCES

Cosmos, M, 1990. Personal Correspondence, August 7, 1990.

Ebasco (Ebasco Services Inc.), 1990. Feasibility Study Report, Whitmoyer Laboratories Site, February.

Ebasco, 1989. Remedial Investigation Report, Whitmoyer Laboratories Site, November.

EPA (U.S. Environmental Protection Agency), 1983. Draft Inorganic Arsenic Emissions from Low-Arsenic Primary Copper Smelters - Background Information for Proposed Standards. EPA 450 3-83-010a, April.

EPA, 1987. Industrial Source Complex (ISC) Dispersion Model User's Guide - Second Edition (Revised). EPA-450/4-88-002A, December.

EPA, 1990. Proposed Plan, Operable Unit Two, Whitmoyer Laboratories Site, April.

Radian Corporation, 1989. Test Report, Pilot-Scale ESP and Hydro-Sonic Scrubber Parametric Tests for Particulate, Metals and HCl Emissions (draft), June.

Sexton, S, 1990. Personal Correspondence, July 25, 1990 and July 31, 1990.

Valenti, T, 1990. Personal Correspondence, August 6, 1990.

Whitmoyer Laboratories, Inc., Memorandum Dated December 17, 1982.

APPENDIX 1

ARSENIC VOLATILIZATION CALCULATIONS

NUS CORPORATION AND SUBSIDIARIES — **STANDARD CALCULATION SHEET**

CLIENT: EPA	FILE NO.: 1817	BY: DJB	PAGE 1 OF 5
SUBJECT: On-site Incineration - Whitmoyer Laboratories Site - Lebanon County, Pa		CHECKED BY: GJR	DATE: 7/11/90

Upper vault Characteristics

Volume 3,000 CY (4,800 tons)

Mix mix 3000 CY cement to minimize Arsenic volatilization & stabilize ash

Total 6000 CY (9,600 tons)

Properties of Mix

As : ~ 6%
Ash : 5%
N-N. bis(2-phenylamine) : 2.3%
Carbon & other Organics : 18%
BTU : 3,500 BTU/lb
H_2O : 5%

Requirements

Primary Chamber - Ash Fixation
Temperature : 1100 to 1300°F
Residence time (min) : ½ to 1 hr.

Air pollution Controls
As : discharge ~ 400-1000 lb total
NO_x : ? ~ 99% removal

Comments :
- Under the primary chamber conditions about 5-10% of the arsenic would volatilize
- Secondary Chamber - 99.99% destruction of Organics

NUS CORPORATION AND SUBSIDIARIES			STANDARD CALCULATION SHEET
CLIENT:	FILE NO.: 1717	BY: DJB	PAGE 2 OF 5
SUBJECT:		CHECKED BY: GJR	DATE: 7/11/90

Information Requested

1) Units Available - Operational Status
Capacity - tons/hr & mm BTU/hr

2) Air pollution controls - Net Indiv.
Efficiency for
Particulates - RCRA Standards
Arsenic - 98.3 to 99.3 %, total volatized
NO_x - ~ 99%

3) As H_3 formation, Info in secondary chamber, removal in APC devices

4) Budgetary Costs for Treatment
- Exclude Excavation, Shredding, Mixing, wastewater blowdown treatment, disposal.
- Include Breakdown of
  - Mob/demob
  - Trial burn
  - Treatment
  - Specialty APC devices
  - Stack, Standard versus USA

5) Schedule

AR303990

NUS CORPORATION AND SUBSIDIARIES			STANDARD CALCULATION SHEET
CLIENT: EPA	FILE NO.: 1817	BY: NJB	PAGE 3 OF 5
SUBJECT: Arsenic Volatilization		CHECKED BY: GJR	DATE: 1/21/90

Through put

Incinerators are rated on heat load for high BTU waste.

A typical transportable incinerator is rated at 50 mm BTU/hr

Time Required : $\frac{7{,}500 \text{ BTU/lb} \times 3200 \text{ lb/ft} \times 3000 \text{ CY}}{50 \times 10^6}$

= 1440 hours

or 60 days

Assume a 70% operation

Duration : $\frac{60}{0.7}$ = 86 day

Say 90 days

NUS CORPORATION AND SUBSIDIARIES			STANDARD CALCULATION SHEET
CLIENT: EPA	FILE NO.: 1817	BY: AAB	PAGE 4 OF 5
SUBJECT: Arsenic Volatilization & Cap.		CHECKED BY: GSR	DATE: 8/21/90

Arsenic Volatilization

1) Assume 5% volatilized

% Vol.

$3000\ CY \times 3200\ \frac{lb}{CY} \times 0.12\ \frac{lb\text{-}As}{lb\text{-}unit} \times 0.05$

= 58,000 lb As Volatilized.

Demonstrated Arsenic removal efficiencies, ranges from 98.4% to 99.94%

Use 99.3%

Calculated Emissions

58,000 x (1 - 0.993) = 410 lbs

Say 400 lbs

2 - If arsenic volatilization increases to say 50%,

Use additional or better APCs, with 99.94% removal

580,000 lb As Volatilized

580,000 (1 - 0.9994) = 348 lbs

Say 400 lbs

NUS CORPORATION AND SUBSIDIARIES — STANDARD CALCULATION SHEET

CLIENT: EPA	FILE NO.: 1817	BY: JJB	PAGE 5 OF 5
SUBJECT: Arsenic Volatilization		CHECKED BY: GJR	DATE: 8/21/90

Arsenic Baghouse Removal - Ogden

Ogden states ability to achieve particulate standard of 0.08 grains/dscfm

$= \frac{0.08\ gr}{dscf} \times \frac{lb}{7000\ gr} \times \frac{dscf}{0.075\ lb} = 150\ ppm$

Particulate Arsenic if all gas is about

$(360 - 140) \times \frac{198}{150} = 550$ ppm-wt as As_2O_3

3% volatile & 34,300 lb gas / CY waste

↑ V.P. at 2400°F

Assume total particulate is 50% As_2O_3

$\Rightarrow 550 \times 2 = 1100$

Particulate removal efficiency

$\frac{1100 - 150}{1100} = 86\%$

NUS 186A REVISED 03/85

AR303993

APPENDIX 2

AIR QUALITY AND DRY DEPOSITION MODELING

APPENDIX 2
EMISSION RATE ADJUSTMENT MEMORANDUM

The ISCST model output files contained in Appendix 2 have been based on an emission rate of 0.0083 g/sec or 90 pounds/quarter. The actual emission rate for arsenic trioxide as arsenic will be 0.037 g/sec or 528 pounds/quarter. Modeling results reported in Section 4.7 of this report have been adjusted by a factor of 5.86 which is the ratio of 400 pounds/90 pounds and the conversion of arsenic trioxide to arsenic. This adjustment procedure is valid because the emission rate term Q in the ISCST model concentration and deposition equations is based on a linear relationship. These equations are given in Section 2.4 and Section 2.4.3.2 of the ISC User's Guide, Second Edition (Revised), Volume I.

MAXIMUM QUARTERLY ARSENIC TRIOXIDE AND
NITROGEN OXIDE CONCENTRATIONS

ISCST - VERSION 3.4 (DATED 88348)

ISM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 08-31-90 AT 12:13:44

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 0
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 0
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 2
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 2
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =
NUMBER OF DISCRETE RECEPTORS	NXNYPT = 0

```
       SOURCE EMISSION RATE UNITS CONVERSION FACTOR                              TK :.10000E+07
       HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED                      ZR :  10.00  METERS
       LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                              IMET :   9
       DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION                   DECAY :0.000000E+00
       SURFACE STATION NO.                                                      ISS : 14751
       YEAR OF SURFACE DATA                                                     ISY : 84
       UPPER AIR STATION NO.                                                    IUS : 93734
       YEAR OF UPPER AIR DATA                                                   IUY : 84
       ALLOCATED DATA STORAGE                                                 LIMIT : 43500 WORDS
       REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                             MIMIT :  1201 WORDS
1
                      *** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984  ***

                                  *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                                                    (IF=1)

     0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
     1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
     0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0
0                     *** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
                                                   (NSOGRP)


       1,   1,
                                  *** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
                                                   (IDSOR)


         1,     2,


                         *** 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
1
                      *** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984  ***
```

*** 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

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

1000.0, 1050.0, 1100.0, 1150.0, 1200.0, 1250.0, 1300.0, 1350.0, 1400.0, 1450.0,
1500.0,

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

-1000.0, -950.0, -900.0, -850.0, -800.0, -750.0, -700.0, -650.0, -600.0, -550.0,
-500.0,

1

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE RECEPTOR GRID *

Y-AXIS (METERS) /	X-AXIS (METERS) 1000.0	1050.0	1100.0	1150.0	1200.0	1250.0	1300.0	1350.0	1400.0
-500.0 /	152.40030	152.40030	152.40030	152.40030	155.44830	155.44830	155.44830	155.44830	152.40030
-550.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	152.40030	152.40030	149.35229	149.35229
-600.0 /	155.44830	155.44830	155.44830	155.44830	152.40030	149.35229	149.35229	149.35229	146.30429
-650.0 /	155.44830	155.44830	155.44830	152.40030	152.40030	152.40030	152.40030	152.40030	152.40030
-700.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631
-750.0 /	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631	158.49631	158.49631
-800.0 /	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631	158.49631	158.49631
-850.0 /	155.44830	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631	158.49631
-900.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631
-950.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	152.40030	152.40030.
-1000.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	152.40030	149.35229

1

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE RECEPTOR GRID *

Y-AXIS (METERS) /	X-AXIS (METERS) 1450.0	1500.0
-500.0 /	152.40030	146.30429
-550.0 /	146.30429	146.30429
-600.0 /	146.30429	146.30429
-650.0 /	152.40030	149.35229
-700.0 /	158.49631	158.49631
-750.0 /	158.49631	158.49631
-800.0 /	158.49631	158.49631
-850.0 /	158.49631	158.49631
-900.0 /	158.49631	158.49631
-950.0 /	152.40030	155.44830
-1000.0 /	149.35229	152.40030

1

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	W A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1	0	0	1	0.63000E-02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00
2	0	0	0	0.36700E+00	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

1

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
1.00000,

SETTLING VELOCITY(METERS/SEC) =
0.0004,

SURFACE REFLECTION COEFFICIENT =
0.92000,

* CALM HOURS (=1) FOR DAY 92 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 93 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0

```
* CALM HOURS (=1) FOR DAY  94 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY  95 * 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY  96 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 100 * 1 1 1 0 1 1 1 0 0 0 0 1 0 1 1 1 0 0 0 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 101 * 1 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 102 * 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 103 * 1 1 1 1 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 106 * 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 107 * 0 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 108 * 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 109 * 1 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 110 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 111 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 113 * 1 1 1 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 114 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 115 * 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 117 * 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 118 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 119 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 120 * 1 1 1 1 1 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 123 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1
* CALM HOURS (=1) FOR DAY 124 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 125 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 126 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1
* CALM HOURS (=1) FOR DAY 127 * 1 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 128 * 1 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 129 * 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 131 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 132 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 133 * 0 0 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 134 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 135 * 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 137 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 138 * 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 139 * 1 1 1 1 1 1 1 1 1 0 0 1 1 0 0 0 0 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 140 * 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 141 * 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 142 * 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 143 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 144 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 145 * 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1
* CALM HOURS (=1) FOR DAY 146 * 1 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 147 * 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 148 * 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 149 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 150 * 0 0 0 0 0 0 0 1 1 1 1 0 0 1 0 1 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 151 * 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 152 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 153 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 154 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 155 * 1 1 1 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 156 * 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 157 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 0 0
* CALM HOURS (=1) FOR DAY 158 * 0 0 0 0 0 0 1 1 1 0 1 0 0 1 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 159 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 . .
```

* CALM HOURS (=1) FOR DAY 160 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 161 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 162 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 163 *	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 164 *	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 165 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 166 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 167 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 168 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0
* CALM HOURS (=1) FOR DAY 169 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 170 *	1	0	0	1	1	1	0	1	1	0	1	1	1	0	0	0	0	0	1	1	0	0	0	
* CALM HOURS (=1) FOR DAY 171 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 172 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 173 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 174 *	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 175 *	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 176 *	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	0	1
* CALM HOURS (=1) FOR DAY 177 *	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 178 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 179 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0
* CALM HOURS (=1) FOR DAY 180 *	0	1	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 181 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 182 *	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1

1

'N'-DAY
91 DAYS
SGROUP= 1

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* 91-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00288 AND OCCURRED AT (1150.0, -750.0) *

Y-AXIS / (METERS) /	X-AXIS (METERS) 1000.0	1050.0	1100.0	1150.0	1200.0	1250.0	1300.0	1350.0	1400.0
-500.0 /	0.00217	0.00204	0.00191	0.00180	0.00189	0.00181	0.00174	0.00170	0.00153
-550.0 /	0.00267	0.00253	0.00237	0.00221	0.00206	0.00176	0.00167	0.00147	0.00142
-600.0 /	0.00279	0.00271	0.00259	0.00245	0.00209	0.00178	0.00167	0.00158	0.00138
-650.0 /	0.00276	0.00276	0.00271	0.00237	0.00227	0.00216	0.00203	0.00190	0.00178
-700.0 /	0.00263	0.00268	0.00270	0.00268	0.00262	0.00278	0.00264	0.00249	0.00233
-750.0 /	0.00246	0.00254	0.00259	0.00288	0.00288	0.00284	0.00276	0.00265	0.00252
-800.0 /	0.00228	0.00236	0.00244	0.00273	0.00278	0.00279	0.00277	0.00272	0.00264
-850.0 /	0.00212	0.00219	0.00227	0.00234	0.00261	0.00266	0.00269	0.00269	0.00266
-900.0 /	0.00195	0.00204	0.00211	0.00217	0.00224	0.00230	0.00255	0.00259	0.00260
-950.0 /	0.00178	0.00188	0.00196	0.00202	0.00208	0.00215	0.00220	0.00208	0.00212
-1000.0 /	0.00158	0.00171	0.00181	0.00188	0.00194	0.00200	0.00206	0.00196	0.00186

1

'N'-DAY
91 DAYS
SGROUP= 1

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* 91-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1.
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00288 AND OCCURRED AT (1150.0, -750.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1450.0	1500.0
-500.0 /	0.00150	0.00126
-550.0 /	0.00128	0.00125
-600.0 /	0.00132	0.00127
-650.0 /	0.00167	0.00146
-700.0 /	0.00217	0.00203
-750.0 /	0.00238	0.00223
-800.0 /	0.00253	0.00241
-850.0 /	0.00260	0.00252
-900.0 /	0.00259	0.00255
-950.0 /	0.00214	0.00232
-1000.0 /	0.00189	0.00207

1

'N'-DAY
91 DAYS
SGROUP8 2

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* 91-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.17422 AND OCCURRED AT (1150.0, -750.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1000.0	1050.0	1100.0	1150.0	1200.0	1250.0	1300.0	1350.0	1400.0
-500.0 /	0.13116	0.12303	0.11552	0.10907	0.11395	0.10912	0.10541	0.10256	0.09236
-550.0 /	0.16127	0.15267	0.14309	0.13348	0.12458	0.10664	0.10116	0.08885	0.08594
-600.0 /	0.16838	0.16372	0.15672	0.14815	0.12595	0.10735	0.10094	0.09526	0.08309
-650.0 /	0.16683	0.16665	0.16383	0.14343	0.13736	0.13017	0.12245	0.11477	0.10754
-700.0 /	0.15907	0.16219	0.16326	0.16200	0.15845	0.16773	0.15957	0.15036	0.14074
-750.0 /	0.14863	0.15321	0.15676	0.17422	0.17404	0.17152	0.16682	0.16030	0.15243
-800.0 /	0.13805	0.14274	0.14718	0.16503	0.16771	0.16861	0.16750	0.16437	0.15942
-850.0 /	0.12809	0.13261	0.13695	0.14116	0.15782	0.16090	0.16257	0.16256	0.16075
-900.0 /	0.11813	0.12311	0.12733	0.13134	0.13529	0.13898	0.15404	0.15623	0.15703
-950.0 /	0.10738	0.11357	0.11829	0.12223	0.12595	0.12964	0.13318	0.12594	0.12820
-1000.0 /	0.09579	0.10333	0.10918	0.11364	0.11734	0.12080	0.12423	0.11823	0.11213

1

SGROUP8 2

AR304003

*** WHITMOYER-ARSENIC&NOx-UPR-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* 91-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.17422 AND OCCURRED AT (1150.0, -750.0) *

Y-AXIS (METERS)	X-AXIS (METERS) 1450.0	1500.0
-500.0	0.09073	0.07607
-550.0	0.07717	0.07567
-600.0	0.07969	0.07699
-650.0	0.10106	0.08817
-700.0	0.13127	0.12238
-750.0	0.14375	0.13478
-800.0	0.15299	0.14549
-850.0	0.15722	0.15218
-900.0	0.15630	0.15399
-950.0	0.12956	0.14026
-1000.0	0.11439	0.12519

RUN ENDED ON 08-31-90 AT 12:15:44

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 08-31-90 AT 12:11:42

*** WHITMOYER-ARSENIC&NOx-LON-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 0
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 0
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 0
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 2
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 2
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 11
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 11
NUMBER OF DISCRETE RECEPTORS	NXNYPT = 0

SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 14751
YEAR OF SURFACE DATA	ISY = 84
UPPER AIR STATION NO.	IUS = 93734
YEAR OF UPPER AIR DATA	IUY = 84
ALLOCATED DATA STORAGE	LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 1201 WORDS

1

*** WHITMOYER-ARSENIC&NOx-LOW-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0
```

0

*** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

1, 1,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1, 2,

*** 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

1

*** WHITMOYER-ARSENIC&NOx-LOW-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

*** 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

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

1000.0, 1050.0, 1100.0, 1150.0, 1200.0, 1250.0, 1300.0, 1350.0, 1400.0, 1450.0,
1500.0,

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

-1000.0, -950.0, -900.0, -850.0, -800.0, -750.0, -700.0, -650.0, -600.0, -550.0,
-500.0,

*** WHITMOYER-ARSENIC&NOx-LOW-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE RECEPTOR GRID *

Y-AXIS (METERS) /	X-AXIS (METERS) 1000.0	1050.0	1100.0	1150.0	1200.0	1250.0	1300.0	1350.0	1400.0
-500.0 /	152.40030	152.40030	152.40030	152.40030	155.44830	155.44830	155.44830	155.44830	152.40030
-550.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	152.40030	152.40030	149.35229	149.35229
-600.0 /	155.44830	155.44830	155.44830	155.44830	152.40030	149.35229	149.35229	149.35229	146.30429
-650.0 /	155.44830	155.44830	155.44830	152.40030	152.40030	152.40030	152.40030	152.40030	152.40030
-700.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631
-750.0 /	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631	158.49631	158.49631
-800.0 /	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631	158.49631	158.49631
-850.0 /	155.44830	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631	158.49631
-900.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631
-950.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	152.40030	152.40030
-1000.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	152.40030	149.35229

*** WHITMOYER-ARSENIC&NOx-LOW-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE RECEPTOR GRID *

Y-AXIS (METERS) /	X-AXIS (METERS) 1450.0	1500.0
-500.0 /	152.40030	146.30429
-550.0 /	146.30429	146.30429
-600.0 /	146.30429	146.30429
-650.0 /	152.40030	149.35229
-700.0 /	158.49631	158.49631
-750.0 /	158.49631	158.49631
-800.0 /	158.49631	158.49631
-850.0 /	158.49631	158.49631
-900.0 /	158.49631	158.49631
-950.0 /	152.40030	155.44830
-1000.0 /	149.35229	152.40030

1

*** WHITMOYER-ARSENIC&NOx-LON-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WAKE	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1	0	0	1	0.63000E-02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00
2	0	0	0	0.36700E+00	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

1

*** WHITMOYER-ARSENIC&NOx-LON-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
1.00000,

SETTLING VELOCITY(METERS/SEC) =
0.0000,

SURFACE REFLECTION COEFFICIENT =
0.99000,

* CALM HOURS (=1) FOR DAY 92 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 1 1
* CALM HOURS (=1) FOR DAY 93 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0

```
* CALM HOURS (=1) FOR DAY  94 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY  95 * 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY  96 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 100 * 1 1 1 0 1 1 1 0 0 0 0 1 0 1 1 1 0 0 0 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 101 * 1 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 102 * 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 103 * 1 1 1 1 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 106 * 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 107 * 0 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 108 * 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 109 * 1 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 110 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 111 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 113 * 1 1 1 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 114 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 115 * 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 117 * 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 118 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 119 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 120 * 1 1 1 1 1 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 123 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1
* CALM HOURS (=1) FOR DAY 124 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 125 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 126 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1
* CALM HOURS (=1) FOR DAY 127 * 1 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 128 * 1 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 129 * 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 131 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 132 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 133 * 0 0 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 134 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 135 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 137 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 138 * 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 139 * 1 1 1 1 1 1 1 1 1 0 0 1 1 0 0 0 0 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 140 * 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 141 * 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 142 * 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 143 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 144 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 145 * 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1
* CALM HOURS (=1) FOR DAY 146 * 1 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 147 * 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 148 * 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 149 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 150 * 0 0 0 0 0 0 1 1 1 1 0 0 1 0 1 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 151 * 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 152 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 153 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 154 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 155 * 1 1 1 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 156 * 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 157 * 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 158 * 0 0 0 0 0 0 0 1 1 1 0 1 0 0 1 0 0 0 0 1 1 0 0 1
* CALM HOURS (=1) FOR DAY 159 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
```

* CALM HOURS (=1) FOR DAY 160 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 161 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 162 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 163 *	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 164 *	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 165 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 166 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 167 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 168 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0
* CALM HOURS (=1) FOR DAY 169 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 170 *	1	0	0	1	1	1	0	1	1	0	1	1	1	0	0	0	0	0	1	1	0	0	0		
* CALM HOURS (=1) FOR DAY 171 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
* CALM HOURS (=1) FOR DAY 172 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
* CALM HOURS (=1) FOR DAY 173 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	
* CALM HOURS (=1) FOR DAY 174 *	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 175 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 176 *	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	0	1	
* CALM HOURS (=1) FOR DAY 177 *	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	
* CALM HOURS (=1) FOR DAY 178 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 179 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	
* CALM HOURS (=1) FOR DAY 180 *	0	1	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 181 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 182 *	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1

'M'-DAY
91 DAYS
SGROUP# 1

*** WHITMOYER-ARSENIC&NOx-LOW-ANNUAL NOT SPOT/RUN1 2ND QTR 1984 ***

* 91-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00298 AND OCCURRED AT (1150.0, -750.0) *

Y-AXIS / (METERS) /	X-AXIS (METERS) 1000.0	1050.0	1100.0	1150.0	1200.0	1250.0	1300.0	1350.0	1400.0
-500.0 /	0.00224	0.00210	0.00197	0.00186	0.00195	0.00186	0.00180	0.00175	0.00158
-550.0 /	0.00276	0.00261	0.00244	0.00228	0.00213	0.00182	0.00173	0.00152	0.00147
-600.0 /	0.00288	0.00280	0.00268	0.00253	0.00215	0.00183	0.00172	0.00163	0.00142
-650.0 /	0.00285	0.00285	0.00280	0.00245	0.00235	0.00222	0.00209	0.00196	0.00184
-700.0 /	0.00272	0.00277	0.00279	0.00277	0.00271	0.00287	0.00273	0.00257	0.00240
-750.0 /	0.00254	0.00262	0.00268	0.00298	0.00297	0.00293	0.00285	0.00274	0.00260
-800.0 /	0.00236	0.00244	0.00251	0.00282	0.00287	0.00288	0.00286	0.00281	0.00272
-850.0 /	0.00219	0.00227	0.00234	0.00241	0.00270	0.00275	0.00278	0.00278	0.00275
-900.0 /	0.00202	0.00210	0.00218	0.00224	0.00231	0.00237	0.00263	0.00267	0.00268
-950.0 /	0.00183	0.00194	0.00202	0.00209	0.00215	0.00221	0.00228	0.00215	0.00219
-1000.0 /	0.00164	0.00177	0.00187	0.00194	0.00200	0.00206	0.00212	0.00202	0.00192

'M'-DAY
91 DAYS
SGROUP# 1

*** WHITMOYER-ARSENIC&NOx-LOW-ANNUAL NOT SPOT/RUN1 2ND QTR 1984 ***

* 91-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.00298 AND OCCURRED AT (1150.0, -750.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1450.0	1500.0
-500.0 /	0.00155	0.00130
-550.0 /	0.00132	0.00129
-600.0 /	0.00136	0.00132
-650.0 /	0.00173	0.00151
-700.0 /	0.00224	0.00209
-750.0 /	0.00246	0.00230
-800.0 /	0.00261	0.00249
-850.0 /	0.00269	0.00260
-900.0 /	0.00267	0.00263
-950.0 /	0.00221	0.00240
-1000.0 /	0.00195	0.00214

1

'N'-DAY
91 DAYS
SGROUP8 2

*** WHITMOYER-ARSENIC&NOx-LOW-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* 91-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.17422 AND OCCURRED AT (1150.0, -750.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1000.0	1050.0	1100.0	1150.0	1200.0	1250.0	1300.0	1350.0	1400.0
-500.0 /	0.13116	0.12303	0.11552	0.10907	0.11395	0.10912	0.10541	0.10256	0.09236
-550.0 /	0.16127	0.15267	0.14309	0.13348	0.12458	0.10664	0.10116	0.08885	0.08594
-600.0 /	0.16838	0.16372	0.15672	0.14815	0.12595	0.10735	0.10094	0.09526	0.08309
-650.0 /	0.16683	0.16665	0.16383	0.14343	0.13736	0.13017	0.12245	0.11477	0.10754
-700.0 /	0.15907	0.16219	0.16326	0.16200	0.15845	0.16773	0.15957	0.15036	0.14074
-750.0 /	0.14863	0.15321	0.15676	0.17422	0.17404	0.17152	0.16682	0.16030	0.15243
-800.0 /	0.13805	0.14274	0.14718	0.16503	0.16771	0.16861	0.16750	0.16437	0.15942
-850.0 /	0.12809	0.13261	0.13695	0.14116	0.15782	0.16090	0.16257	0.16256	0.16075
-900.0 /	0.11813	0.12311	0.12733	0.13134	0.13529	0.13898	0.15404	0.15623	0.15703
-950.0 /	0.10738	0.11357	0.11829	0.12223	0.12595	0.12964	0.13318	0.12594	0.12820
-1000.0 /	0.09579	0.10333	0.10918	0.11364	0.11734	0.12080	0.12423	0.11823	0.11213

1

'N'
9
SGROUP8 2

*** WHITMOYER-ARSENIC&NOx-LOW-ANNUAL HOT SPOT/RUN1 2ND QTR 1984 ***

* 91-DAY AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2,
* FOR THE RECEPTOR GRID *

* MAXIMUM VALUE EQUALS 0.17422 AND OCCURRED AT (1150.0, -750.0) *

Y-AXIS (METERS) /	X-AXIS (METERS) 1450.0	1500.0
-500.0 /	0.09073	0.07607
-550.0 /	0.07717	0.07567
-600.0 /	0.07969	0.07699
-650.0 /	0.10106	0.08817
-700.0 /	0.13127	0.12238
-750.0 /	0.14375	0.13478
-800.0 /	0.15299	0.14549
-850.0 /	0.15722	0.15218
-900.0 /	0.15630	0.15399
-950.0 /	0.12956	0.14026
-1000.0 /	0.11439	0.12519

RUN ENDED ON 08-31-90 AT 12:13:42

MAXIMUM HOURLY ARSENIC TRIOXIDE AND NITROGEN OXIDE CONCENTRATIONS

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 08-31-90 AT 12:10:39

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	1
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) =	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) =	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) =	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) =	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) =	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) =	0
NUMBER OF INPUT SOURCES	NSOURC =	2
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	2
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	11
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	11
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	0

SOURCE EMISSION RATE UNITS CONVERSION FACTOR TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION DECAY =0.000000E+00
SURFACE STATION NO. ISS = 14751
YEAR OF SURFACE DATA ISY = 84
UPPER AIR STATION NO. IUS = 93734
YEAR OF UPPER AIR DATA IUY = 84
ALLOCATED DATA STORAGE LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN MIMIT = 1603 WORDS

1

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

0 *** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

1, 1,

0 *** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1, 2,

*** 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

1

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

*** 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

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

-500.0, -450.0, -400.0, -350.0, -300.0, -250.0, -200.0, -150.0, -100.0, -50.0,
0.0,

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

-1250.0, -1200.0, -1150.0, -1100.0, -1050.0, -1000.0, -950.0, -900.0, -850.0, -800.0,
-750.0,

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE RECEPTOR GRID *

Y-AXIS (METERS) /	X-AXIS (METERS) -500.0	-450.0	-400.0	-350.0	-300.0	-250.0	-200.0	-150.0	-100.0
-750.0 /	155.44830	155.44830	155.44830	149.35229	152.40030	155.44830	155.44830	155.44830	158.49631
-800.0 /	155.44830	155.44830	155.44830	155.44830	152.40030	155.44830	155.44830	155.44830	155.44830
-850.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830
-900.0 /	152.40030	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	158.49631
-950.0 /	152.40030	155.44830	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	161.54431
-1000.0 /	152.40030	152.40030	155.44830	155.44830	158.49631	158.49631	158.49631	161.54431	161.54431
-1050.0 /	149.35229	152.40030	155.44830	155.44830	158.49631	158.49631	158.49631	161.54431	161.54431
-1100.0 /	149.35229	152.40030	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631	158.49631
-1150.0 /	149.35229	152.40030	152.40030	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631
-1200.0 /	149.35229	152.40030	152.40030	152.40030	155.44830	155.44830	158.49631	158.49631	158.49631
-1250.0 /	149.35229	149.35229	152.40030	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE RECEPTOR GRID *

Y-AXIS (METERS)	X-AXIS (METERS) -30.0	0.0
-750.0	161.54431	161.54431
-800.0	158.49631	161.54431
-850.0	158.49631	158.49631
-900.0	158.49631	161.54431
-950.0	161.54431	161.54431
-1000.0	161.54431	161.54431
-1050.0	161.54431	161.54431
-1100.0	161.54431	161.54431
-1150.0	158.49631	161.54431
-1200.0	158.49631	161.54431
-1250.0	161.54431	161.54431

1

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

*** SOURCE DATA ***

SOURCE NUMBER	T Y P E	M A K E	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1	0	0	1	0.63000E-02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00
2	0	0	0	0.36700E+00	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

1

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
1.00000,

SETTLING VELOCITY(METERS/SEC) =
0.0000,

SURFACE REFLECTION COEFFICIENT =
0.99000,

* CALM HOURS (=1) FOR DAY 275 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 276 * 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

* CALM HOURS (=1) FOR DAY 277 *	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 278 *	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 279 *	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	0	0	0	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 280 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 281 *	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	1	1	
* CALM HOURS (=1) FOR DAY 282 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 283 *	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 284 *	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 285 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	
* CALM HOURS (=1) FOR DAY 286 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 287 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 288 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
* CALM HOURS (=1) FOR DAY 289 *	1	1	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	1	1	0	0	1	1	
* CALM HOURS (=1) FOR DAY 290 *	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	0	0	1	1
* CALM HOURS (=1) FOR DAY 291 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 292 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 293 *	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 294 *	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 295 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 296 *	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 297 *	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 298 *	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 299 *	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 300 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 301 *	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 302 *	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 303 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 304 *	0	0	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 305 *	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 306 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 308 *	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 309 *	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 310 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 312 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 313 *	0	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 314 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 315 *	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 320 *	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 321 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 323 *	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 324 *	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 326 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 327 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	
* CALM HOURS (=1) FOR DAY 328 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 329 *	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	
* CALM HOURS (=1) FOR DAY 330 *	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 331 *	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 332 *	1	1	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 334 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 335 *	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 336 *	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 337 *	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 338 *	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 340 *	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 343 *	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	

```
* CALM HOURS (=1) FOR DAY 344 * 0 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 345 * 1 1 1 1 0 1 1 1 0 1 1 1 1 0 0 1 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 346 * 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 347 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 1 1 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 348 * 1 1 1 1 1 1 1 1 1 0 0 1 0 0 1 0 1 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 349 * 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 350 * 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 0 0 1 1 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 351 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 0
* CALM HOURS (=1) FOR DAY 352 * 0 1 1 1 1 0 1 0 0 0 0 0 0 0 1 0 1 1 1 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 353 * 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 354 * 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 355 * 1 0 1 0 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 356 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 1 1
* CALM HOURS (=1) FOR DAY 357 * 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 358 * 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 359 * 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 1 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 361 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 362 * 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 363 * 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 0
* CALM HOURS (=1) FOR DAY 364 * 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0
* CALM HOURS (=1) FOR DAY 365 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 366 * 1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 0 1 1 1 1 1 1 0 1 1
```

1

MAX 50
1-HR
SGROUP# 1

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

* 50 MAXIMUM 1-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1,

RANK	CON.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.08714	17	283	-250.0	-800.0	26	0.07152	17	283	-300.0	-1100.0
2	0.08713	17	283	-250.0	-750.0	27	0.07084	12	335	-50.0	-800.0
3	0.08502	17	283	-300.0	-900.0	28	0.07065	12	335	-50.0	-850.0
4	0.08421	17	283	-300.0	-850.0	29	0.07054	17	283	-200.0	-800.0
5	0.08395	17	283	-250.0	-850.0	30	0.07044	17	283	-400.0	-1100.0
6	0.08359	17	283	-300.0	-1000.0	31	0.07020	16	365	-450.0	-750.0
7	0.08310	17	283	-300.0	-950.0	32	0.07017	12	335	-50.0	-1000.0
8	0.07958	16	365	-500.0	-750.0	33	0.06972	12	335	-50.0	-900.0
9	0.07866	17	283	-250.0	-900.0	34	0.06958	12	335	0.0	-950.0
10	0.07851	17	283	-350.0	-1000.0	35	0.06902	17	283	-250.0	-1000.0
11	0.07787	17	283	-300.0	-1050.0	36	0.06863	12	335	0.0	-850.0
12	0.07778	17	283	-350.0	-1050.0	37	0.06851	17	283	-400.0	-1050.0
13	0.07702	17	283	-350.0	-950.0	38	0.06768	17	283	-400.0	-1150.0
14	0.07679	12	335	-50.0	-750.0	39	0.06767	12	335		
15	0.07669	17	283	-250.0	-950.0	40	0.06706	12	335	0.0	-1000.0

16	0.07651	17	283	-200.0	-750.0	41	0.06664	17	283	-400.0	-1200.0
17	0.07606	12	335	0.0	-750.0	42	0.06654	13	335	-300.0	-750.0
18	0.07535	12	335	0.0	-800.0	43	0.06635	14	286	-50.0	-750.0
19	0.07534	17	283	-350.0	-1100.0	44	0.06581	17	283	-350.0	-850.0
20	0.07473	16	365	-500.0	-800.0	45	0.06579	14	286	0.0	-750.0
21	0.07375	17	283	-300.0	-800.0	46	0.06561	17	283	-300.0	-750.0
22	0.07286	17	283	-350.0	-900.0	47	0.06528	16	365	-500.0	-850.0
23	0.07248	12	335	-50.0	-950.0	48	0.06508	12	335	-50.0	-1100.0
24	0.07189	12	335	0.0	-900.0	49	0.06495	13	335	-500.0	-800.0
25	0.07168	17	283	-350.0	-1150.0	50	0.06458	17	283	-350.0	-1200.0

MAX 50
1-HR
GROUPS 2

*** WHITMOYER -ARSENIC & NOx-UPR-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

* 50 MAXIMUM 1-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2,

RANK	CON.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	5.10026	17	283	-250.0	-800.0	26	4.18630	17	283	-300.0	-1100.0
2	5.09923	17	283	-250.0	-750.0	27	4.14639	12	335	-50.0	-800.0
3	4.97622	17	283	-300.0	-900.0	28	4.13538	12	335	-50.0	-850.0
4	4.92875	17	283	-300.0	-850.0	29	4.12831	17	283	-200.0	-800.0
5	4.91318	17	283	-250.0	-850.0	30	4.12310	17	283	-400.0	-1100.0
6	4.89283	17	283	-300.0	-1000.0	31	4.10891	16	365	-450.0	-750.0
7	4.86374	17	283	-300.0	-950.0	32	4.10722	12	335	-50.0	-1000.0
8	4.65746	16	365	-500.0	-750.0	33	4.08094	12	335	-50.0	-900.0
9	4.60377	17	283	-250.0	-900.0	34	4.07262	12	335	0.0	-950.0
10	4.59547	17	283	-350.0	-1000.0	35	4.03992	17	283	-250.0	-1000.0
11	4.55780	17	283	-300.0	-1050.0	36	4.01687	12	335	0.0	-850.0
12	4.55268	17	283	-350.0	-1050.0	37	4.01025	17	283	-400.0	-1050.0
13	4.50793	17	283	-350.0	-950.0	38	3.96132	17	283	-400.0	-1150.0
14	4.49458	12	335	-50.0	-750.0	39	3.96096	12	335	-50.0	-1050.0
15	4.48867	17	283	-250.0	-950.0	40	3.92547	12	335	0.0	-1000.0
16	4.47793	17	283	-200.0	-750.0	41	3.90033	17	283	-400.0	-1200.0
17	4.45198	12	335	0.0	-750.0	42	3.89464	13	335	-500.0	-750.0
18	4.41049	12	335	0.0	-800.0	43	3.88377	14	286	-50.0	-750.0
19	4.40959	17	283	-350.0	-1100.0	44	3.85160	17	283	-350.0	-850.0
20	4.37361	16	365	-500.0	-800.0	45	3.85099	14	286	0.0	-750.0
21	4.31613	17	283	-300.0	-800.0	46	3.84007	17	283	-300.0	-750.0
22	4.26442	17	283	-350.0	-900.0	47	3.82105	16	365	-500.0	-850.0
23	4.24284	12	335	-50.0	-950.0	48	3.80940	12	335	-50.0	-1100.0
24	4.20828	12	335	0.0	-900.0	49	3.80154	13	335	-500.0	-800.0
25	4.19541	17	283	-350.0	-1150.0	50	3.78005	17	283		

RUN ENDED ON 08-31-90 AT 12:11:41

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 08-31-90 AT 12:09:35

*** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	1
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) =	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) =	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) =	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) =	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) =	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) =	0
NUMBER OF INPUT SOURCES	NSOURC =	2
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	2
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	11
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	11
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	0

SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+07
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 14751
YEAR OF SURFACE DATA	ISY = 84
UPPER AIR STATION NO.	IUS = 93734
YEAR OF UPPER AIR DATA	IUY = 84
ALLOCATED DATA STORAGE	LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 1603 WORDS

1 *** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

0 *** NUMBER OF SOURCE NUMBERS REQUIRED TO DEFINE SOURCE GROUPS ***
(NSOGRP)

1, 1,

*** SOURCE NUMBERS DEFINING SOURCE GROUPS ***
(IDSOR)

1, 2,

*** 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

1 *** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

*** 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

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

-500.0, -450.0, -400.0, -350.0, -300.0, -250.0, -200.0, -150.0, -100.0, -50.0,
0.0,

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

-1250.0, -1200.0, -1150.0, -1100.0, -1050.0, -1000.0, -950.0, -900.0, -850.0, -800.0,
-750.0,

1

*** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE RECEPTOR GRID *

Y-AXIS (METERS) /	X-AXIS (METERS) -500.0	-450.0	-400.0	-350.0	-300.0	-250.0	-200.0	-150.0	-100.0
-750.0 /	155.44830	155.44830	155.44830	149.35229	152.40030	155.44830	155.44830	155.44830	158.49631
-800.0 /	155.44830	155.44830	155.44830	155.44830	152.40030	155.44830	155.44830	155.44830	155.44830
-850.0 /	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830
-900.0 /	152.40030	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	155.44830	158.49631
-950.0 /	152.40030	155.44830	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631	161.54431
-1000.0 /	152.40030	152.40030	155.44830	155.44830	158.49631	158.49631	158.49631	161.54431	161.54431
-1050.0 /	149.35229	152.40030	155.44830	155.44830	158.49631	158.49631	158.49631	161.54431	161.54431
-1100.0 /	149.35229	152.40030	155.44830	155.44830	158.49631	158.49631	158.49631	158.49631	158.49631
-1150.0 /	149.35229	152.40030	152.40030	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631
-1200.0 /	149.35229	152.40030	152.40030	152.40030	155.44830	155.44830	158.49631	158.49631	158.49631
-1250.0 /	149.35229	149.35229	152.40030	155.44830	155.44830	155.44830	158.49631	158.49631	158.49631

1

*** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE RECEPTOR GRID *

Y-AXIS (METERS)	X-AXIS (METERS) -50.0	0.0
-750.0	161.54431	161.54431
-800.0	158.49631	161.54431
-850.0	158.49631	158.49631
-900.0	158.49631	161.54431
-950.0	161.54431	161.54431
-1000.0	161.54431	161.54431
-1050.0	161.54431	161.54431
-1100.0	161.54431	161.54431
-1150.0	158.49631	161.54431
-1200.0	158.49631	161.54431
-1250.0	161.54431	161.54431

1

*** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

*** SOURCE DATA ***

SOURCE NUMBER	TYPE	WET	DRY	NUMBER PART. CATS.	EMISSION RATE TYPE=0,1 (GRAMS/SEC) TYPE=2 (GRAMS/SEC) *PER METER**2	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1 (METERS)	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2 (METERS)	DIAMETER TYPE=0 (METERS)	BLDG. HEIGHT TYPE=0 (METERS)	BLDG. LENGTH TYPE=0 (METERS)	BLDG. WIDTH TYPE=0 (METERS)
1	0	0	1	0.63000E-02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00
2	0	0	0	0.36700E+00	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

1

*** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
1.00000,

SETTLING VELOCITY(METERS/SEC) =
0.0000,

SURFACE REFLECTION COEFFICIENT =
0.99000,

* CALM HOURS (=1) FOR DAY 275 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 276 * 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

* CALM HOURS (=1) FOR DAY 277 *	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 278 *	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 279 *	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 280 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 281 *	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0	1	1
* CALM HOURS (=1) FOR DAY 282 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 283 *	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 284 *	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 285 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0
* CALM HOURS (=1) FOR DAY 286 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 287 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 288 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 289 *	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	1	1	1	1	1	1	0	0	1	1
* CALM HOURS (=1) FOR DAY 290 *	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	0	0	1	1
* CALM HOURS (=1) FOR DAY 291 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 292 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 293 *	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 294 *	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 295 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 296 *	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 297 *	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 298 *	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 299 *	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 300 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 301 *	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 302 *	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 303 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 304 *	0	0	1	1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 305 *	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 306 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 308 *	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 309 *	0	0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 310 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 312 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 313 *	0	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 314 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 315 *	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 320 *	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 321 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 323 *	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 324 *	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 326 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 327 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 328 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 329 *	1	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 330 *	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 331 *	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 332 *	1	1	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 334 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 335 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 336 *	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 337 *	1	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 338 *	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 340 *	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
* CALM HOURS (=1) FOR DAY 343 *	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1

* CALM HOURS (=1) FOR DAY 344 *	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	1	1	0	0
* CALM HOURS (=1) FOR DAY 345 *	1	1	1	1	0	1	1	1	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 346 *	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 347 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 348 *	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	0	1	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 349 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 350 *	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	1	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 351 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0
* CALM HOURS (=1) FOR DAY 352 *	0	1	1	1	1	0	1	0	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 353 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 354 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 355 *	1	0	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 356 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 357 *	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 358 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 359 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 361 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 362 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 363 *	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
* CALM HOURS (=1) FOR DAY 364 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 365 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 366 *	1	1	1	1	1	1	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	0	1	1

1

MAX 50
1-HR
GROUP# 1

*** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

* 50 MAXIMUM 1-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 1,

RANK	CON.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.08714	17	283	-250.0	-800.0	26	0.07152	17	283	-300.0	-1100.0
2	0.08713	17	283	-250.0	-750.0	27	0.07084	12	335	-50.0	-800.0
3	0.08502	17	283	-300.0	-900.0	28	0.07065	12	335	-50.0	-850.0
4	0.08421	17	283	-300.0	-850.0	29	0.07054	17	283	-200.0	-800.0
5	0.08395	17	283	-250.0	-850.0	30	0.07044	17	283	-400.0	-1100.0
6	0.08359	17	283	-300.0	-1000.0	31	0.07020	16	365	-450.0	-750.0
7	0.08310	17	283	-300.0	-950.0	32	0.07017	12	335	-50.0	-1000.0
8	0.07958	16	365	-500.0	-750.0	33	0.06972	12	335	-50.0	-900.0
9	0.07866	17	283	-250.0	-900.0	34	0.06958	12	335	0.0	-950.0
10	0.07851	17	283	-350.0	-1000.0	35	0.06902	17	283	-250.0	-1000.0
11	0.07787	17	283	-300.0	-1050.0	36	0.06863	12	335	0.0	-850.0
12	0.07778	17	283	-350.0	-1050.0	37	0.06851	17	283	-400.0	-1050.0
13	0.07702	17	283	-350.0	-950.0	38	0.06768	17	283	-400.0	-1150.0
14	0.07679	12	335	-50.0	-750.0	39	0.06767	12	335		
15	0.07669	17	283	-250.0	-950.0	40	0.06706	12	335	[illegible]	[illegible]

16	0.07651	17	283	-200.0	-750.0	41	0.06664	17	283	-400.0	-1200.0
17	0.07606	12	335	0.0	-750.0	42	0.06654	13	335	-500.0	-750.0
18	0.07535	12	335	0.0	-800.0	43	0.06635	14	286	-50.0	-750.0
19	0.07534	17	283	-350.0	-1100.0	44	0.06581	17	283	-350.0	-850.0
20	0.07473	16	365	-500.0	-800.0	45	0.06579	14	286	0.0	-750.0
21	0.07375	17	283	-300.0	-800.0	46	0.06561	17	283	-300.0	-750.0
22	0.07286	17	283	-350.0	-900.0	47	0.06528	16	365	-500.0	-850.0
23	0.07248	12	335	-50.0	-950.0	48	0.06508	12	335	-50.0	-1100.0
24	0.07189	12	335	0.0	-900.0	49	0.06495	13	335	-500.0	-800.0
25	0.07168	17	283	-350.0	-1150.0	50	0.06458	17	283	-350.0	-1200.0

1

MAX 50
1-HR
GROUPS 2

*** WHITMOYER -ARSENIC & NOx-LOW-1 HR HOT SPOT/RUN1 4TH QTR 1984 ***

* 50 MAXIMUM 1-HOUR AVERAGE CONCENTRATION (MICROGRAMS/CUBIC METER) *

* FROM SOURCES: 2,

RANK	CON.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	CON.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	5.10026	17	283	-250.0	-800.0	26	4.18630	17	283	-300.0	-1100.0
2	5.09923	17	283	-250.0	-750.0	27	4.14639	12	335	-50.0	-800.0
3	4.97622	17	283	-300.0	-900.0	28	4.13538	12	335	-50.0	-850.0
4	4.92875	17	283	-300.0	-850.0	29	4.12831	17	283	-200.0	-800.0
5	4.91318	17	283	-250.0	-850.0	30	4.12310	17	283	-400.0	-1100.0
6	4.89283	17	283	-300.0	-1000.0	31	4.10891	16	365	-450.0	-750.0
7	4.86374	17	283	-300.0	-950.0	32	4.10722	12	335	-50.0	-1000.0
8	4.65746	16	365	-500.0	-750.0	33	4.08094	12	335	-50.0	-900.0
9	4.60377	17	283	-250.0	-900.0	34	4.07262	12	335	0.0	-950.0
10	4.59547	17	283	-350.0	-1000.0	35	4.03992	17	283	-250.0	-1000.0
11	4.55780	17	283	-300.0	-1050.0	36	4.01687	12	335	0.0	-850.0
12	4.55268	17	283	-350.0	-1050.0	37	4.01025	17	283	-400.0	-1050.0
13	4.50793	17	283	-350.0	-950.0	38	3.96132	17	283	-400.0	-1150.0
14	4.49458	12	335	-50.0	-750.0	39	3.96096	12	335	-50.0	-1050.0
15	4.48867	17	283	-250.0	-950.0	40	3.92547	12	335	0.0	-1000.0
16	4.47798	17	283	-200.0	-750.0	41	3.90033	17	283	-400.0	-1200.0
17	4.45198	12	335	0.0	-750.0	42	3.89464	13	335	-500.0	-750.0
18	4.41049	12	335	0.0	-800.0	43	3.88377	14	286	-50.0	-750.0
19	4.40959	17	283	-350.0	-1100.0	44	3.85160	17	283	-350.0	-850.0
20	4.37361	16	365	-500.0	-800.0	45	3.85099	14	286	0.0	-750.0
21	4.31613	17	283	-300.0	-800.0	46	3.84007	17	283	-300.0	-750.0
22	4.26442	17	283	-350.0	-900.0	47	3.82105	16	365	-500.0	-850.0
23	4.24284	12	335	-50.0	-950.0	48	3.80940	12	335	-50.0	-1100.0
24	4.20828	12	335	0.0	-900.0	49	3.80154	13	335	-500.0	-800.0
25	4.19541	17	283	-350.0	-1150.0	50	3.78005	17	283	-350.0	-1200.0

RUN ENDED ON 08-31-90 AT 12:10:37

MAXIMUM QUARTERLY ARSENIC TRIOXIDE DEPOSITION

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 12:37:58

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	1
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) =	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) =	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) =	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) =	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) =	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) =	0
NUMBER OF INPUT SOURCES	NSOURC =	1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	0
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	301

SOURCE EMISSION RATE UNITS CONVERSION FACTOR TK =.10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION DECAY =0.000000E+00
SURFACE STATION NO. ISS = 14751
YEAR OF SURFACE DATA ISY = 87
UPPER AIR STATION NO. IUS = 93734
YEAR OF UPPER AIR DATA IUY = 87
ALLOCATED DATA STORAGE LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN MIMIT = 2595 WORDS

1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0
```

*** 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	[illegible]
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

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(	-400.0,	-100.0),	(	-400.0,	-150.0),	(	-400.0,	-200.0),	(	-400.0,	-250.0),	(	-400.0,	-300.0),
(	-400.0,	-350.0),	(	-400.0,	-400.0),	(	-350.0,	-100.0),	(	-350.0,	-150.0),	(	-350.0,	-200.0),
(	-350.0,	-250.0),	(	-350.0,	-300.0),	(	-350.0,	-350.0),	(	-350.0,	-400.0),	(	-300.0,	-100.0),
(	-300.0,	-150.0),	(	-300.0,	-200.0),	(	-300.0,	-250.0),	(	-300.0,	-300.0),	(	-300.0,	-350.0),
(	-300.0,	-400.0),	(	-250.0,	-100.0),	(	-250.0,	-150.0),	(	-250.0,	-200.0),	(	-250.0,	-250.0),
(	-250.0,	-300.0),	(	-250.0,	-350.0),	(	-250.0,	-400.0),	(	-200.0,	-100.0),	(	-200.0,	-150.0),
(	-200.0,	-200.0),	(	-200.0,	-250.0),	(	-200.0,	-300.0),	(	-200.0,	-350.0),	(	-200.0,	-400.0),
(	-150.0,	-100.0),	(	-150.0,	-150.0),	(	-150.0,	-200.0),	(	-150.0,	-250.0),	(	-150.0,	-300.0),
(	-150.0,	-350.0),	(	-150.0,	-400.0),	(	-100.0,	-100.0),	(	-100.0,	-150.0),	(	-100.0,	-200.0),
(	-100.0,	-250.0),	(	-100.0,	-300.0),	(	-100.0,	-350.0),	(	-100.0,	-400.0),	(	350.0,	-100.0),
(	350.0,	-150.0),	(	350.0,	-200.0),	(	350.0,	-250.0),	(	350.0,	-300.0),	(	350.0,	-350.0),
(	350.0,	-400.0),	(	400.0,	-100.0),	(	400.0,	-150.0),	(	400.0,	-200.0),	(	400.0,	-250.0),
(	400.0,	-300.0),	(	400.0,	-350.0),	(	400.0,	-400.0),	(	450.0,	-100.0),	(	450.0,	-150.0),
(	450.0,	-200.0),	(	450.0,	-250.0),	(	450.0,	-300.0),	(	450.0,	-350.0),	(	450.0,	-400.0),
(	500.0,	-100.0),	(	500.0,	-150.0),	(	500.0,	-200.0),	(	500.0,	-250.0),	(	500.0,	-300.0),
(	500.0,	-350.0),	(	500.0,	-400.0),	(	550.0,	-100.0),	(	550.0,	-150.0),	(	550.0,	-200.0),
(	550.0,	-250.0),	(	550.0,	-300.0),	(	550.0,	-350.0),	(	550.0,	-400.0),	(	600.0,	-100.0),
(	600.0,	-150.0),	(	600.0,	-200.0),	(	600.0,	-250.0),	(	600.0,	-300.0),	(	600.0,	-350.0),
(	600.0,	-400.0),	(	650.0,	-100.0),	(	650.0,	-150.0),	(	650.0,	-200.0),	(	650.0,	-250.0),
(	650.0,	-300.0),	(	650.0,	-350.0),	(	650.0,	-400.0),	(	100.0,	-350.0),	(	100.0,	-400.0),
(	100.0,	-450.0),	(	100.0,	-500.0),	(	100.0,	-550.0),	(	100.0,	-600.0),	(	100.0,	-650.0),
(	150.0,	-350.0),	(	150.0,	-400.0),	(	150.0,	-450.0),	(	150.0,	-500.0),	(	150.0,	-550.0),
(	150.0,	-600.0),	(	150.0,	-650.0),	(	200.0,	-350.0),	(	200.0,	-400.0),	(	200.0,	-450.0),
(	200.0,	-500.0),	(	200.0,	-550.0),	(	200.0,	-600.0),	(	200.0,	-650.0),	(	250.0,	-350.0),
(	250.0,	-400.0),	(	250.0,	-450.0),	(	250.0,	-500.0),	(	250.0,	-550.0),	(	250.0,	-600.0),
(	250.0,	-650.0),	(	300.0,	-350.0),	(	300.0,	-400.0),	(	300.0,	-450.0),	(	300.0,	-500.0),
(	300.0,	-550.0),	(	300.0,	-600.0),	(	300.0,	-650.0),	(	350.0,	-350.0),	(	350.0,	-400.0),
(	350.0,	-450.0),	(	350.0,	-500.0),	(	350.0,	-550.0),	(	350.0,	-600.0),	(	350.0,	-650.0),
(	400.0,	-350.0),	(	400.0,	-400.0),	(	400.0,	-450.0),	(	400.0,	-500.0),	(	400.0,	-550.0),
(	400.0,	-600.0),	(	400.0,	-650.0),	(	600.0,	-350.0),	(	600.0,	-400.0),	(	600.0,	-450.0),
(	600.0,	-500.0),	(	600.0,	-550.0),	(	600.0,	-600.0),	(	600.0,	-650.0),	(	650.0,	-350.0),
(	650.0,	-400.0),	(	650.0,	-450.0),	(	650.0,	-500.0),	(	650.0,	-550.0),	(	650.0,	-600.0),
(	650.0,	-650.0),	(	700.0,	-350.0),	(	700.0,	-400.0),	(	700.0,	-450.0),	(	700.0,	-500.0),
(	700.0,	-550.0),	(	700.0,	-600.0),	(	700.0,	-650.0),	(	750.0,	-350.0),	(	750.0,	-400.0),
(	750.0,	-450.0),	(	750.0,	-500.0),	(	750.0,	-550.0),	(	750.0,	-600.0),	(	750.0,	-650.0),
(	800.0,	-350.0),	(	800.0,	-400.0),	(	800.0,	-450.0),	(	800.0,	-500.0),	(	800.0,	-550.0),
(	800.0,	-600.0),	(	800.0,	-650.0),	(	850.0,	-350.0),	(	850.0,	-400.0),	(	850.0,	-450.0),
(	850.0,	-500.0),	(	850.0,	-550.0),	(	850.0,	-600.0),	(	850.0,	-650.0),	(	900.0,	-350.0),
(	900.0,	-400.0),	(	900.0,	-450.0),	(	900.0,	-500.0),	(	900.0,	-550.0),	(	900.0,	-600.0),
(	900.0,	-650.0),	(	200.0,	-100.0),	(	200.0,	-150.0),	(	200.0,	-200.0),	(	200.0,	-250.0),
(	200.0,	-300.0),	(	200.0,	-350.0),	(	200.0,	-400.0),	(	250.0,	-100.0),	(	250.0,	-150.0),
(	250.0,	-200.0),	(	250.0,	-250.0),	(	250.0,	-300.0),	(	250.0,	-350.0),	(	250.0,	-400.0),
(	300.0,	-100.0),	(	300.0,	-150.0),	(	300.0,	-200.0),	(	300.0,	-250.0),	(	300.0,	-300.0),
(	300.0,	-350.0),	(	300.0,	-400.0),	(	350.0,	-100.0),	(	350.0,	-150.0),	(	350.0,	-200.0),
(	350.0,	-250.0),	(	350.0,	-300.0),	(	350.0,	-350.0),	(	350.0,	-4			00.0),
(	400.0,	-150.0),	(	400.0,	-200.0),	(	400.0,	-250.0),	(	400.0,	-300.0),	(	400.0,	-350.0),

(400.0, -400.0), (-50.0, -100.0), (-50.0, -150.0), (-50.0, -200.0), (-50.0, -250.0),
(-50.0, -300.0), (-50.0, -350.0), (-50.0, -400.0), (0.0, -100.0), (0.0, -150.0),
(0.0, -200.0), (0.0, -250.0), (0.0, -300.0), (0.0, -350.0), (0.0, -400.0),
(50.0, -100.0), (50.0, -150.0), (50.0, -200.0), (50.0, -250.0), (50.0, -300.0),
(50.0, -350.0), (50.0, -400.0), (100.0, -100.0), (100.0, -150.0), (100.0, -200.0),
(100.0, -250.0), (100.0, -300.0), (100.0, -350.0), (100.0, -400.0), (150.0, -100.0),
(150.0, -150.0), (150.0, -200.0), (150.0, -250.0), (150.0, -300.0), (150.0, -350.0),
(150.0, -400.0), (950.0, -350.0), (950.0, -400.0), (950.0, -450.0), (950.0, -500.0),
(950.0, -550.0), (950.0, -600.0), (950.0, -650.0), (1000.0, -350.0), (1000.0, -400.0),
(1000.0, -450.0), (1000.0, -500.0), (1000.0, -550.0), (1000.0, -600.0), (1000.0, -650.0),
(1050.0, -350.0), (1050.0, -400.0), (1050.0, -450.0), (1050.0, -500.0), (1050.0, -550.0),
(1050.0, -600.0), (1050.0, -650.0), (1100.0, -350.0), (1100.0, -400.0), (1100.0, -450.0),
(1100.0, -500.0), (1100.0, -550.0), (1100.0, -600.0), (1100.0, -650.0), (1150.0, -350.0),
(1150.0, -400.0), (1150.0, -450.0), (1150.0, -500.0), (1150.0, -550.0), (1150.0 -600.0),
(1150.0, -650.0), (

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	146.30429
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0	•	
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0	-100.0	146.30429
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0	-250.0	146.30429

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0	-300.0	[illegible]
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0	-100.0	
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0	-250.0	146.30429

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

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*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

*** SOURCE DATA ***

SOURCE	T Y P E	M A R K	EMISSION RATE TYPE=0,1 NUMBER PART. (GRAMS/HOUR) TYPE=2	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	BLDG. HEIGHT TYPE=0	BLDG. TYPE=0	BLDG. TYPE=0

NUMBER	E	E	CATS.	*PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1	0	0	1	0.22680E+02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

*** WHITTMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000,

SETTLING VELOCITY(METERS/SEC) :
0.0000,

SURFACE REFLECTION COEFFICIENT :
0.99000,

* CALM HOURS (=1) FOR DAY 182 *	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
* CALM HOURS (=1) FOR DAY 183 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 185 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 186 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 187 *	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 189 *	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 190 *	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	
* CALM HOURS (=1) FOR DAY 191 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 192 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 193 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 194 *	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 195 *	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 196 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
* CALM HOURS (=1) FOR DAY 197 *	0	0	1	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	
* CALM HOURS (=1) FOR DAY 198 *	0	0	1	1	1	0	1	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 199 *	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 200 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 201 *	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 203 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	
* CALM HOURS (=1) FOR DAY 204 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 205 *	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 206 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	
* CALM HOURS (=1) FOR DAY 207 *	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 208 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 210 *	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 211 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 212 *	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 214 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 215 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
* CALM HOURS (=1) FOR DAY 216 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 217 *	0	1	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 219 *	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 220 *	1	1	0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 221 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

* CALM HOURS (=1) FOR DAY 222 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 223 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 224 *	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 225 *	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 226 *	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 227 *	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 228 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 229 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 231 *	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 232 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 234 *	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 236 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 237 *	1	0	0	1	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 238 *	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 239 *	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 241 *	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 242 *	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 243 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 244 *	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 245 *	0	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 246 *	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 247 *	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 248 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 249 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 250 *	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 251 *	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 252 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 253 *	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 254 *	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 256 *	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 257 *	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 258 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 259 *	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 260 *	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 261 *	0	1	0	0	0	1	1	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 263 *	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 264 *	1	1	1	1	1	1	0	0	1	1	0	1	0	0	0	0	0	1	0	1	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 265 *	1	1	1	1	1	1	0	1	1	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 269 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 270 *	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 271 *	1	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 272 *	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 273 *	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

'N'-DAY
92 DAYS
SGROUP# 1

*** WHITTHOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.

-400.0	-100.0	0.00000	-400.0	-150.0	0.00001	-400.0	-200.0	0.00001
-400.0	-250.0	0.00001	-400.0	-300.0	0.00001	-400.0	-350.0	0.00001
-400.0	-400.0	0.00001	-350.0	-100.0	0.00000	-350.0	-150.0	0.00000
-350.0	-200.0	0.00001	-350.0	-250.0	0.00001	-350.0	-300.0	0.00002
-350.0	-350.0	0.00002	-350.0	-400.0	0.00002	-300.0	-100.0	0.00000
-300.0	-150.0	0.00001	-300.0	-200.0	0.00001	-300.0	-250.0	0.00001
-300.0	-300.0	0.00002	-300.0	-350.0	0.00002	-300.0	-400.0	0.00002
-250.0	-100.0	0.00000	-250.0	-150.0	0.00001	-250.0	-200.0	0.00001
-250.0	-250.0	0.00002	-250.0	-300.0	0.00002	-250.0	-350.0	0.00002
-250.0	-400.0	0.00001	-200.0	-100.0	0.00000	-200.0	-150.0	0.00000
-200.0	-200.0	0.00001	-200.0	-250.0	0.00002	-200.0	-300.0	0.00002
-200.0	-350.0	0.00001	-200.0	-400.0	0.00001	-150.0	-100.0	0.00000
-150.0	-150.0	0.00000	-150.0	-200.0	0.00001	-150.0	-250.0	0.00001
-150.0	-300.0	0.00001	-150.0	-350.0	0.00001	-150.0	-400.0	0.00001
-100.0	-100.0	0.00000	-100.0	-150.0	0.00000	-100.0	-200.0	0.00001
-100.0	-250.0	0.00001	-100.0	-300.0	0.00001	-100.0	-350.0	0.00001
-100.0	-400.0	0.00001	350.0	-100.0	0.00001	350.0	-150.0	0.00001
350.0	-200.0	0.00001	350.0	-250.0	0.00002	350.0	-300.0	0.00002
350.0	-350.0	0.00002	350.0	-400.0	0.00002	400.0	-100.0	0.00001
400.0	-150.0	0.00001	400.0	-200.0	0.00002	400.0	-250.0	0.00002
400.0	-300.0	0.00002	400.0	-350.0	0.00002	400.0	-400.0	0.00002
450.0	-100.0	0.00001	450.0	-150.0	0.00002	450.0	-200.0	0.00002
450.0	-250.0	0.00002	450.0	-300.0	0.00002	450.0	-350.0	0.00002
450.0	-400.0	0.00002	500.0	-100.0	0.00001	500.0	-150.0	0.00002
500.0	-200.0	0.00002	500.0	-250.0	0.00002	500.0	-300.0	0.00002
500.0	-350.0	0.00002	500.0	-400.0	0.00002	550.0	-100.0	0.00001
550.0	-150.0	0.00001	550.0	-200.0	0.00002	550.0	-250.0	0.00002
550.0	-300.0	0.00002	550.0	-350.0	0.00002	550.0	-400.0	0.00002
600.0	-100.0	0.00001	600.0	-150.0	0.00001	600.0	-200.0	0.00001
600.0	-250.0	0.00002	600.0	-300.0	0.00002	600.0	-350.0	0.00001
600.0	-400.0	0.00001	650.0	-100.0	0.00001	650.0	-150.0	0.00001
650.0	-200.0	0.00001	650.0	-250.0	0.00001	650.0	-300.0	0.00001
650.0	-350.0	0.00001	650.0	-400.0	0.00001	100.0	-350.0	0.00001
100.0	-400.0	0.00002	100.0	-450.0	0.00002	100.0	-500.0	0.00002
100.0	-550.0	0.00002	100.0	-600.0	0.00001	100.0	-650.0	0.00001
150.0	-350.0	0.00002	150.0	-400.0	0.00002	150.0	-450.0	0.00002
150.0	-500.0	0.00002	150.0	-550.0	0.00002	150.0	-600.0	0.00002
150.0	-650.0	0.00001	200.0	-350.0	0.00002	200.0	-400.0	0.00002

1

'M'-DAY
92 DAYS
SGROUP8 1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LON- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
200.0	-450.0	0.00002	200.0	-500.0	0.00002	200.0	[illegible]	0.00002

200.0	-600.0	0.00002	200.0	-650.0	0.00001	250.0	-350.0	0.00002
250.0	-400.0	0.00002	250.0	-450.0	0.00002	250.0	-500.0	0.00002
250.0	-550.0	0.00002	250.0	-600.0	0.00002	250.0	-650.0	0.00001
300.0	-350.0	0.00002	300.0	-400.0	0.00002	300.0	-450.0	0.00002
300.0	-500.0	0.00002	300.0	-550.0	0.00002	300.0	-600.0	0.00002
300.0	-650.0	0.00002	350.0	-350.0	0.00002	350.0	-400.0	0.00002
350.0	-450.0	0.00002	350.0	-500.0	0.00002	350.0	-550.0	0.00002
350.0	-600.0	0.00002	350.0	-650.0	0.00002	400.0	-350.0	0.00002
400.0	-400.0	0.00002	400.0	-450.0	0.00002	400.0	-500.0	0.00002
400.0	-550.0	0.00002	400.0	-600.0	0.00002	400.0	-650.0	0.00002
600.0	-350.0	0.00001	600.0	-400.0	0.00001	600.0	-450.0	0.00001
600.0	-500.0	0.00001	600.0	-550.0	0.00001	600.0	-600.0	0.00001
600.0	-650.0	0.00001	650.0	-350.0	0.00001	650.0	-400.0	0.00001
650.0	-450.0	0.00001	650.0	-500.0	0.00001	650.0	-550.0	0.00001
650.0	-600.0	0.00001	650.0	-650.0	0.00001	700.0	-350.0	0.00001
700.0	-400.0	0.00001	700.0	-450.0	0.00001	700.0	-500.0	0.00001
700.0	-550.0	0.00001	700.0	-600.0	0.00001	700.0	-650.0	0.00001
750.0	-350.0	0.00001	750.0	-400.0	0.00001	750.0	-450.0	0.00001
750.0	-500.0	0.00001	750.0	-550.0	0.00001	750.0	-600.0	0.00001
750.0	-650.0	0.00001	800.0	-350.0	0.00001	800.0	-400.0	0.00001
800.0	-450.0	0.00001	800.0	-500.0	0.00001	800.0	-550.0	0.00001
800.0	-600.0	0.00001	800.0	-650.0	0.00001	850.0	-350.0	0.00001
850.0	-400.0	0.00001	850.0	-450.0	0.00001	850.0	-500.0	0.00001
850.0	-550.0	0.00001	850.0	-600.0	0.00001	850.0	-650.0	0.00001
900.0	-350.0	0.00001	900.0	-400.0	0.00001	900.0	-450.0	0.00001
900.0	-500.0	0.00001	900.0	-550.0	0.00001	900.0	-600.0	0.00001
900.0	-650.0	0.00001	200.0	-100.0	0.00000	200.0	-150.0	0.00001
200.0	-200.0	0.00001	200.0	-250.0	0.00002	200.0	-300.0	0.00002
200.0	-350.0	0.00002	200.0	-400.0	0.00002	250.0	-100.0	0.00001
250.0	-150.0	0.00001	250.0	-200.0	0.00001	250.0	-250.0	0.00002
250.0	-300.0	0.00002	250.0	-350.0	0.00002	250.0	-400.0	0.00002
300.0	-100.0	0.00001	300.0	-150.0	0.00001	300.0	-200.0	0.00001
300.0	-250.0	0.00001	300.0	-300.0	0.00002	300.0	-350.0	0.00002
300.0	-400.0	0.00002	350.0	-100.0	0.00001	350.0	-150.0	0.00001
350.0	-200.0	0.00001	350.0	-250.0	0.00002	350.0	-300.0	0.00002
350.0	-350.0	0.00002	350.0	-400.0	0.00002	400.0	-100.0	0.00001
400.0	-150.0	0.00001	400.0	-200.0	0.00002	400.0	-250.0	0.00002

'N'-DAY
92 DAYS
SGROUP$

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
400.0	-300.0	0.00002	400.0	-350.0	0.00002	400.0	-400.0	0.00002
-50.0	-100.0	0.00000	-50.0	-150.0	0.00000	-50.0	-200.0	
-50.0	-250.0	0.00001	-50.0	-300.0	0.00001	-50.0	-350.0	0.00001
-50.0	-400.0	0.00001	0.0	-100.0	0.00000	0.0	-150.0	0.00000

0.0	-200.0	0.00000	0.0	-250.0	0.00001	0.0	-300.0	0.00001
0.0	-350.0	0.00001	0.0	-400.0	0.00001	50.0	-100.0	0.00000
50.0	-150.0	0.00000	50.0	-200.0	0.00000	50.0	-250.0	0.00001
50.0	-300.0	0.00001	50.0	-350.0	0.00001	50.0	-400.0	0.00002
100.0	-100.0	0.00000	100.0	-150.0	0.00000	100.0	-200.0	0.00000
100.0	-250.0	0.00001	100.0	-300.0	0.00001	100.0	-350.0	0.00002
100.0	-400.0	0.00002	150.0	-100.0	0.00000	150.0	-150.0	0.00000
150.0	-200.0	0.00001	150.0	-250.0	0.00001	150.0	-300.0	0.00001
150.0	-350.0	0.00002	150.0	-400.0	0.00002	950.0	-350.0	0.00001
950.0	-400.0	0.00001	950.0	-450.0	0.00001	950.0	-500.0	0.00001
950.0	-550.0	0.00001	950.0	-600.0	0.00001	950.0	-650.0	0.00001
1000.0	-350.0	0.00001	1000.0	-400.0	0.00001	1000.0	-450.0	0.00001
1000.0	-500.0	0.00001	1000.0	-550.0	0.00001	1000.0	-600.0	0.00001
1000.0	-650.0	0.00001	1050.0	-350.0	0.00001	1050.0	-400.0	0.00001
1050.0	-450.0	0.00001	1050.0	-500.0	0.00001	1050.0	-550.0	0.00001
1050.0	-600.0	0.00001	1050.0	-650.0	0.00001	1100.0	-350.0	0.00001
1100.0	-400.0	0.00001	1100.0	-450.0	0.00001	1100.0	-500.0	0.00001
1100.0	-550.0	0.00001	1100.0	-600.0	0.00001	1100.0	-650.0	0.00001
1150.0	-350.0	0.00001	1150.0	-400.0	0.00001	1150.0	-450.0	0.00001
1150.0	-500.0	0.00001	1150.0	-550.0	0.00001	1150.0	-600.0	0.00001
1150.0	-650.0	0.00001						

1

MAX 50
1-HR
SGROUP# 1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP LOW- HOT SPOT ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00000	13	199	-150.0	-250.0	26	0.00000	11	198	-100.0	-250.0
2	0.00000	12	208	-150.0	-250.0	27	0.00000	12	233	-150.0	-200.0
3	0.00000	11	211	-150.0	-250.0	28	0.00000	13	199	-200.0	-250.0
4	0.00000	12	233	-150.0	-250.0	29	0.00000	12	199	50.0	-300.0
5	0.00000	12	199	0.0	-300.0	30	0.00000	12	208	-200.0	-250.0
6	0.00000	11	198	-150.0	-250.0	31	0.00000	11	211	-200.0	-250.0
7	0.00000	12	223	50.0	-300.0	32	0.00000	13	199	-150.0	-200.0
8	0.00000	12	223	50.0	-250.0	33	0.00000	12	223	100.0	-250.0
9	0.00000	12	223	100.0	-300.0	34	0.00000	13	211	-150.0	-200.0
10	0.00000	13	211	-200.0	-250.0	35	0.00000	12	233	-200.0	-300.0
11	0.00000	13	211	-200.0	-200.0	36	0.00000	12	208	-150.0	-200.0
12	0.00000	11	198	-150.0	-300.0	37	0.00000	11	194	-250.0	-100.0
13	0.00000	12	199	0.0	-250.0	38	0.00000	11	211	-150.0	-200.0
14	0.00000	11	210	-100.0	-300.0	39	0.00000	11			0
15	0.00000	11	194	-300.0	-100.0	40	0.00000	13			0
16	0.00000	12	199	0.0	-350.0	41	0.00000	12	208	-200.0	-300.0

17	0.00000	11	208	200.0	-250.0	42	0.00000	12	211	300.0	-150.0
18	0.00000	13	199	-150.0	-300.0	43	0.00000	11	211	-200.0	-300.0
19	0.00000	12	208	-150.0	-300.0	44	0.00000	11	205	300.0	-150.0
20	0.00000	11	211	-150.0	-300.0	45	0.00000	12	223	100.0	-350.0
21	0.00000	11	193	250.0	-200.0	46	0.00000	12	211	250.0	-150.0
22	0.00000	12	233	-200.0	-250.0	47	0.00000	12	223	100.0	-350.0
23	0.00000	12	233	-150.0	-300.0	48	0.00000	11	194	-300.0	-150.0
24	0.00000	13	211	-250.0	-250.0	49	0.00000	11	210	-100.0	-350.0
25	0.00000	12	190	300.0	-150.0	50	0.00000	11	198	-200.0	-300.0

RUN ENDED ON 09-04-90 AT 12:41:54

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORAATION
RUN BEGAN ON 09-04-90 AT 12:58:25

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT *** ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	1
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) =	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) =	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) =	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) =	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) =	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) =	0
NUMBER OF INPUT SOURCES	NSOURC =	1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	0
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	301

SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 14751
YEAR OF SURFACE DATA	ISY = 84
UPPER AIR STATION NO.	IUS = 93734
YEAR OF UPPER AIR DATA	IUY = 84
ALLOCATED DATA STORAGE	LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 2595 WORDS

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0
```

*** 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	
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	
D	.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

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-400.0, -100.0),	(-400.0, -150.0),	(-400.0, -200.0),	(-400.0, -250.0),	(-400.0, -300.0),
(-400.0, -350.0),	(-400.0, -400.0),	(-350.0, -100.0),	(-350.0, -150.0),	(-350.0, -200.0),
(-350.0, -250.0),	(-350.0, -300.0),	(-350.0, -350.0),	(-350.0, -400.0),	(-300.0, -100.0),
(-300.0, -150.0),	(-300.0, -200.0),	(-300.0, -250.0),	(-300.0, -300.0),	(-300.0, -350.0),
(-300.0, -400.0),	(-250.0, -100.0),	(-250.0, -150.0),	(-250.0, -200.0),	(-250.0, -250.0),
(-250.0, -300.0),	(-250.0, -350.0),	(-250.0, -400.0),	(-200.0, -100.0),	(-200.0, -150.0),
(-200.0, -200.0),	(-200.0, -250.0),	(-200.0, -300.0),	(-200.0, -350.0),	(-200.0, -400.0),
(-150.0, -100.0),	(-150.0, -150.0),	(-150.0, -200.0),	(-150.0, -250.0),	(-150.0, -300.0),
(-150.0, -350.0),	(-150.0, -400.0),	(-100.0, -100.0),	(-100.0, -150.0),	(-100.0, -200.0),
(-100.0, -250.0),	(-100.0, -300.0),	(-100.0, -350.0),	(-100.0, -400.0),	(350.0, -100.0),
(350.0, -150.0),	(350.0, -200.0),	(350.0, -250.0),	(350.0, -300.0),	(350.0, -350.0),
(350.0, -400.0),	(400.0, -100.0),	(400.0, -150.0),	(400.0, -200.0),	(400.0, -250.0),
(400.0, -300.0),	(400.0, -350.0),	(400.0, -400.0),	(450.0, -100.0),	(450.0, -150.0),
(450.0, -200.0),	(450.0, -250.0),	(450.0, -300.0),	(450.0, -350.0),	(450.0, -400.0),
(500.0, -100.0),	(500.0, -150.0),	(500.0, -200.0),	(500.0, -250.0),	(500.0, -300.0),
(500.0, -350.0),	(500.0, -400.0),	(550.0, -100.0),	(550.0, -150.0),	(550.0, -200.0),
(550.0, -250.0),	(550.0, -300.0),	(550.0, -350.0),	(550.0, -400.0),	(600.0, -100.0),
(600.0, -150.0),	(600.0, -200.0),	(600.0, -250.0),	(600.0, -300.0),	(600.0, -350.0),
(600.0, -400.0),	(650.0, -100.0),	(650.0, -150.0),	(650.0, -200.0),	(650.0, -250.0),
(650.0, -300.0),	(650.0, -350.0),	(650.0, -400.0),	(100.0, -350.0),	(100.0, -400.0),
(100.0, -450.0),	(100.0, -500.0),	(100.0, -550.0),	(100.0, -600.0),	(100.0, -650.0),
(150.0, -350.0),	(150.0, -400.0),	(150.0, -450.0),	(150.0, -500.0),	(150.0, -550.0),
(150.0, -600.0),	(150.0, -650.0),	(200.0, -350.0),	(200.0, -400.0),	(200.0, -450.0),
(200.0, -500.0),	(200.0, -550.0),	(200.0, -600.0),	(200.0, -650.0),	(250.0, -350.0),
(250.0, -400.0),	(250.0, -450.0),	(250.0, -500.0),	(250.0, -550.0),	(250.0, -600.0),
(250.0, -650.0),	(300.0, -350.0),	(300.0, -400.0),	(300.0, -450.0),	(300.0, -500.0),
(300.0, -550.0),	(300.0, -600.0),	(300.0, -650.0),	(350.0, -350.0),	(350.0, -400.0),
(350.0, -450.0),	(350.0, -500.0),	(350.0, -550.0),	(350.0, -600.0),	(350.0, -650.0),
(400.0, -350.0),	(400.0, -400.0),	(400.0, -450.0),	(400.0, -500.0),	(400.0, -550.0),
(400.0, -600.0),	(400.0, -650.0),	(600.0, -350.0),	(600.0, -400.0),	(600.0, -450.0),
(600.0, -500.0),	(600.0, -550.0),	(600.0, -600.0),	(600.0, -650.0),	(650.0, -350.0),
(650.0, -400.0),	(650.0, -450.0),	(650.0, -500.0),	(650.0, -550.0),	(650.0, -600.0),
(650.0, -650.0),	(700.0, -350.0),	(700.0, -400.0),	(700.0, -450.0),	(700.0, -500.0),
(700.0, -550.0),	(700.0, -600.0),	(700.0, -650.0),	(750.0, -350.0),	(750.0, -400.0),
(750.0, -450.0),	(750.0, -500.0),	(750.0, -550.0),	(750.0, -600.0),	(750.0, -650.0),
(800.0, -350.0),	(800.0, -400.0),	(800.0, -450.0),	(800.0, -500.0),	(800.0, -550.0),
(800.0, -600.0),	(800.0, -650.0),	(850.0, -350.0),	(850.0, -400.0),	(850.0, -450.0),
(850.0, -500.0),	(850.0, -550.0),	(850.0, -600.0),	(850.0, -650.0),	(900.0, -350.0),
(900.0, -400.0),	(900.0, -450.0),	(900.0, -500.0),	(900.0, -550.0),	(900.0, -600.0),
(900.0, -650.0),	(200.0, -100.0),	(200.0, -150.0),	(200.0, -200.0),	(200.0, -250.0),
(200.0, -300.0),	(200.0, -350.0),	(200.0, -400.0),	(250.0, -100.0),	(250.0, -150.0),
(250.0, -200.0),	(250.0, -250.0),	(250.0, -300.0),	(250.0, -350.0),	(250.0, -400.0),
(300.0, -100.0),	(300.0, -150.0),	(300.0, -200.0),	(300.0, -250.0),	(300.0 -[illegible]
(300.0, -350.0),	(300.0, -400.0),	(350.0, -100.0),	(350.0, -150.0	
(350.0, -250.0),	(350.0, -300.0),	(350.0, -350.0),	(350.0, -400.0	
(400.0, -150.0),	(400.0, -200.0),	(400.0, -250.0),	(400.0, -300.0	

(400.0, -400.0), (-50.0, -100.0), (-50.0, -150.0), (-50.0, -200.0), (-50.0, -250.0),
(-50.0, -300.0), (-50.0, -350.0), (-50.0, -400.0), (0.0, -100.0), (0.0, -150.0),
(0.0, -200.0), (0.0, -250.0), (0.0, -300.0), (0.0, -350.0), (0.0, -400.0),
(50.0, -100.0), (50.0, -150.0), (50.0, -200.0), (50.0, -250.0), (50.0, -300.0),
(50.0, -350.0), (50.0, -400.0), (100.0, -100.0), (100.0, -150.0), (100.0, -200.0),
(100.0, -250.0), (100.0, -300.0), (100.0, -350.0), (100.0, -400.0), (150.0, -100.0),
(150.0, -150.0), (150.0, -200.0), (150.0, -250.0), (150.0, -300.0), (150.0, -350.0),
(150.0, -400.0), (950.0, -350.0), (950.0, -400.0), (950.0, -450.0), (950.0, -500.0),
(950.0, -550.0), (950.0, -600.0), (950.0, -650.0), (1000.0, -350.0), (1000.0, -400.0),
(1000.0, -450.0), (1000.0, -500.0), (1000.0, -550.0), (1000.0, -600.0), (1000.0, -650.0),
(1050.0, -350.0), (1050.0, -400.0), (1050.0, -450.0), (1050.0, -500.0), (1050.0, -550.0),
(1050.0, -600.0), (1050.0, -650.0), (1100.0, -350.0), (1100.0, -400.0), (1100.0, -450.0),
(1100.0, -500.0), (1100.0, -550.0), (1100.0, -600.0), (1100.0, -650.0), (1150.0, -350.0),
(1150.0, -400.0), (1150.0, -450.0), (1150.0, -500.0), (1150.0, -550.0), (1150.0, -600.0),
(1150.0, -650.0), (

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*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	146.30429
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0	-300.0	146.30429
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0	-100.0	
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0	-250.	

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	[illegible]	
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0	[illegible]	
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0	[illegible]	
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0	[illegible]	146.30429

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** SOURCE DATA ***

SOURCE	T Y P E	M A K	NUMBER PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	..... TYPE=0	.. TYPE=0	G. TH TYPE=0

NUMBER E E CATS.	*PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1 0 0 1	0.22680E+02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000,

SETTLING VELOCITY(METERS/SEC) :
0.0004,

SURFACE REFLECTION COEFFICIENT :
0.92000,

* CALM HOURS (=1) FOR DAY 92 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1
* CALM HOURS (=1) FOR DAY 93 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 94 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 95 *	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 96 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 100 *	1	1	1	0	1	1	1	0	0	0	0	1	0	1	1	1	0	0	0	1	1	1	0	1
* CALM HOURS (=1) FOR DAY 101 *	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 102 *	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 103 *	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 106 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 107 *	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 108 *	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 109 *	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 110 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 111 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 113 *	1	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 114 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 115 *	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 117 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 118 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 119 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 120 *	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 122 *	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
* CALM HOURS (=1) FOR DAY 124 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 125 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 126 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 127 *	1	1	1	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 128 *	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 129 *	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 131 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 132 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	'	'	'
* CALM HOURS (=1) FOR DAY 133 *	0	0	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0			
* CALM HOURS (=1) FOR DAY 134 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
* CALM HOURS (=1) FOR DAY 135 *	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	u	u	u

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* CALM HOURS (=1) FOR DAY 137 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 138 * 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 139 * 1 1 1 1 1 1 1 1 0 0 1 1 0 0 0 0 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 140 * 1 1 1 1 1 1 1 1 1 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 141 * 0 0 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 142 * 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 143 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 144 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1
* CALM HOURS (=1) FOR DAY 145 * 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1
* CALM HOURS (=1) FOR DAY 146 * 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 147 * 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 148 * 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 149 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 150 * 0 0 0 0 0 0 0 1 1 1 1 0 0 1 0 1 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 151 * 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 152 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 153 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 154 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 155 * 1 1 1 1 1 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 156 * 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 157 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 158 * 0 0 0 0 0 0 1 1 1 0 1 0 0 1 0 0 0 0 1 1 0 0 1 1
* CALM HOURS (=1) FOR DAY 159 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 160 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 161 * 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 162 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 163 * 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 164 * 1 1 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 165 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
* CALM HOURS (=1) FOR DAY 166 * 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 167 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 168 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 169 * 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 170 * 1 0 0 1 1 1 0 1 1 0 1 1 1 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 171 * 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 172 * 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 173 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 1 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 174 * 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 175 * 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 176 * 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 177 * 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 178 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 179 * 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 1 0
* CALM HOURS (=1) FOR DAY 180 * 0 1 1 1 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 181 * 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 182 * 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
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'N'-DAY
91 DAYS
SGROUP# 1

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 91-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
-400.0	-100.0	0.00001	-400.0	-150.0	0.00002	-400.0	-200.0	0.00003
-400.0	-250.0	0.00003	-400.0	-300.0	0.00002	-400.0	-350.0	0.00002
-400.0	-400.0	0.00002	-350.0	-100.0	0.00001	-350.0	-150.0	0.00002
-350.0	-200.0	0.00002	-350.0	-250.0	0.00002	-350.0	-300.0	0.00002
-350.0	-350.0	0.00002	-350.0	-400.0	0.00002	-300.0	-100.0	0.00001
-300.0	-150.0	0.00002	-300.0	-200.0	0.00002	-300.0	-250.0	0.00002
-300.0	-300.0	0.00002	-300.0	-350.0	0.00002	-300.0	-400.0	0.00002
-250.0	-100.0	0.00001	-250.0	-150.0	0.00001	-250.0	-200.0	0.00001
-250.0	-250.0	0.00002	-250.0	-300.0	0.00002	-250.0	-350.0	0.00002
-250.0	-400.0	0.00002	-200.0	-100.0	0.00000	-200.0	-150.0	0.00001
-200.0	-200.0	0.00001	-200.0	-250.0	0.00002	-200.0	-300.0	0.00002
-200.0	-350.0	0.00002	-200.0	-400.0	0.00002	-150.0	-100.0	0.00000
-150.0	-150.0	0.00000	-150.0	-200.0	0.00001	-150.0	-250.0	0.00002
-150.0	-300.0	0.00003	-150.0	-350.0	0.00003	-150.0	-400.0	0.00003
-100.0	-100.0	0.00000	-100.0	-150.0	0.00000	-100.0	-200.0	0.00002
-100.0	-250.0	0.00003	-100.0	-300.0	0.00004	-100.0	-350.0	0.00004
-100.0	-400.0	0.00004	350.0	-100.0	0.00010	350.0	-150.0	0.00011
350.0	-200.0	0.00013	350.0	-250.0	0.00017	350.0	-300.0	0.00017
350.0	-350.0	0.00017	350.0	-400.0	0.00015	400.0	-100.0	0.00012
400.0	-150.0	0.00013	400.0	-200.0	0.00016	400.0	-250.0	0.00017
400.0	-300.0	0.00018	400.0	-350.0	0.00017	400.0	-400.0	0.00015
450.0	-100.0	0.00012	450.0	-150.0	0.00014	450.0	-200.0	0.00016
450.0	-250.0	0.00017	450.0	-300.0	0.00018	450.0	-350.0	0.00018
450.0	-400.0	0.00017	500.0	-100.0	0.00012	500.0	-150.0	0.00014
500.0	-200.0	0.00015	500.0	-250.0	0.00016	500.0	-300.0	0.00018
500.0	-350.0	0.00017	500.0	-400.0	0.00017	550.0	-100.0	0.00012
550.0	-150.0	0.00014	550.0	-200.0	0.00014	550.0	-250.0	0.00015
550.0	-300.0	0.00017	550.0	-350.0	0.00018	550.0	-400.0	0.00017
600.0	-100.0	0.00012	600.0	-150.0	0.00013	600.0	-200.0	0.00014
600.0	-250.0	0.00014	600.0	-300.0	0.00016	600.0	-350.0	0.00017
600.0	-400.0	0.00017	650.0	-100.0	0.00011	650.0	-150.0	0.00012
650.0	-200.0	0.00013	650.0	-250.0	0.00013	650.0	-300.0	0.00014
650.0	-350.0	0.00016	650.0	-400.0	0.00017	100.0	-350.0	0.00005
100.0	-400.0	0.00006	100.0	-450.0	0.00006	100.0	-500.0	0.00007
100.0	-550.0	0.00008	100.0	-600.0	0.00008	100.0	-650.0	0.00007
150.0	-350.0	0.00008	150.0	-400.0	0.00007	150.0	-450.0	0.00007
150.0	-500.0	0.00007	150.0	-550.0	0.00007	150.0	-600.0	0.00007
150.0	-650.0	0.00007	200.0	-350.0	0.00010	200.0	-400.0	0.00010

'N'-DAY
91 DAYS
SGROUP8 1

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 91-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.

200.0	-450.0	0.00010	200.0	-500.0	0.00008	200.0	-550.0	0.00008
200.0	-600.0	0.00007	200.0	-650.0	0.00007	250.0	-350.0	0.00014
250.0	-400.0	0.00013	250.0	-450.0	0.00012	250.0	-500.0	0.00010
250.0	-550.0	0.00010	250.0	-600.0	0.00008	250.0	-650.0	0.00007
300.0	-350.0	0.00015	300.0	-400.0	0.00014	300.0	-450.0	0.00014
300.0	-500.0	0.00012	300.0	-550.0	0.00011	300.0	-600.0	0.00009
300.0	-650.0	0.00008	350.0	-350.0	0.00017	350.0	-400.0	0.00015
350.0	-450.0	0.00015	350.0	-500.0	0.00013	350.0	-550.0	0.00013
350.0	-600.0	0.00010	350.0	-650.0	0.00009	400.0	-350.0	0.00017
400.0	-400.0	0.00017	400.0	-450.0	0.00016	400.0	-500.0	0.00014
400.0	-550.0	0.00013	400.0	-600.0	0.00011	400.0	-650.0	0.00010
600.0	-350.0	0.00015	600.0	-400.0	0.00016	600.0	-450.0	0.00015
600.0	-500.0	0.00014	600.0	-550.0	0.00013	600.0	-600.0	0.00012
600.0	-650.0	0.00010	650.0	-350.0	0.00014	650.0	-400.0	0.00015
650.0	-450.0	0.00015	650.0	-500.0	0.00016	650.0	-550.0	0.00014
650.0	-600.0	0.00012	650.0	-650.0	0.00011	700.0	-350.0	0.00013
700.0	-400.0	0.00016	700.0	-450.0	0.00016	700.0	-500.0	0.00016
700.0	-550.0	0.00015	700.0	-600.0	0.00014	700.0	-650.0	0.00012
750.0	-350.0	0.00012	750.0	-400.0	0.00015	750.0	-450.0	0.00017
750.0	-500.0	0.00017	750.0	-550.0	0.00017	750.0	-600.0	0.00015
750.0	-650.0	0.00014	800.0	-350.0	0.00013	800.0	-400.0	0.00014
800.0	-450.0	0.00016	800.0	-500.0	0.00017	800.0	-550.0	0.00018
800.0	-600.0	0.00017	800.0	-650.0	0.00014	850.0	-350.0	0.00012
850.0	-400.0	0.00013	850.0	-450.0	0.00015	850.0	-500.0	0.00016
850.0	-550.0	0.00017	850.0	-600.0	0.00016	850.0	-650.0	0.00015
900.0	-350.0	0.00011	900.0	-400.0	0.00012	900.0	-450.0	0.00014
900.0	-500.0	0.00015	900.0	-550.0	0.00016	900.0	-600.0	0.00017
900.0	-650.0	0.00015	200.0	-100.0	0.00002	200.0	-150.0	0.00005
200.0	-200.0	0.00007	200.0	-250.0	0.00011	200.0	-300.0	0.00010
200.0	-350.0	0.00010	200.0	-400.0	0.00010	250.0	-100.0	0.00005
250.0	-150.0	0.00007	250.0	-200.0	0.00010	250.0	-250.0	0.00012
250.0	-300.0	0.00012	250.0	-350.0	0.00012	250.0	-400.0	0.00013
300.0	-100.0	0.00008	300.0	-150.0	0.00009	300.0	-200.0	0.00011
300.0	-250.0	0.00012	300.0	-300.0	0.00015	300.0	-350.0	0.00015
300.0	-400.0	0.00014	350.0	-100.0	0.00010	350.0	-150.0	0.00011
350.0	-200.0	0.00013	350.0	-250.0	0.00017	350.0	-300.0	0.00017
350.0	-350.0	0.00017	350.0	-400.0	0.00015	400.0	-100.0	0.00012
400.0	-150.0	0.00013	400.0	-200.0	0.00014	400.0	-250.0	0.00017

'H'-DAY
91 DAYS
SCROUP# 1

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 91-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
400.0	-300.0	0.00020	400.0	-350.0	0.00017	400.0	-400.0	0.00013

-50.0	-100.0	0.00000	-50.0	-150.0	0.00000	-50.0	-200.0	0.00002
-50.0	-250.0	0.00003	-50.0	-300.0	0.00004	-50.0	-350.0	0.00005
-50.0	-400.0	0.00005	0.0	-100.0	0.00000	0.0	-150.0	0.00000
0.0	-200.0	0.00001	0.0	-250.0	0.00003	0.0	-300.0	0.00005
0.0	-350.0	0.00007	0.0	-400.0	0.00007	50.0	-100.0	0.00000
50.0	-150.0	0.00000	50.0	-200.0	0.00001	50.0	-250.0	0.00003
50.0	-300.0	0.00005	50.0	-350.0	0.00006	50.0	-400.0	0.00007
100.0	-100.0	0.00000	100.0	-150.0	0.00001	100.0	-200.0	0.00002
100.0	-250.0	0.00005	100.0	-300.0	0.00006	100.0	-350.0	0.00006
100.0	-400.0	0.00006	150.0	-100.0	0.00001	150.0	-150.0	0.00002
150.0	-200.0	0.00005	150.0	-250.0	0.00007	150.0	-300.0	0.00008
150.0	-350.0	0.00008	150.0	-400.0	0.00007	950.0	-350.0	0.00010
950.0	-400.0	0.00011	950.0	-450.0	0.00012	950.0	-500.0	0.00014
950.0	-550.0	0.00015	950.0	-600.0	0.00015	950.0	-650.0	0.00014
1000.0	-350.0	0.00010	1000.0	-400.0	0.00010	1000.0	-450.0	0.00011
1000.0	-500.0	0.00013	1000.0	-550.0	0.00014	1000.0	-600.0	0.00015
1000.0	-650.0	0.00015	1050.0	-350.0	0.00009	1050.0	-400.0	0.00009
1050.0	-450.0	0.00010	1050.0	-500.0	0.00012	1050.0	-550.0	0.00013
1050.0	-600.0	0.00013	1050.0	-650.0	0.00013	1100.0	-350.0	0.00009
1100.0	-400.0	0.00009	1100.0	-450.0	0.00009	1100.0	-500.0	0.00011
1100.0	-550.0	0.00012	1100.0	-600.0	0.00012	1100.0	-650.0	0.00013
1150.0	-350.0	0.00010	1150.0	-400.0	0.00008	1150.0	-450.0	0.00008
1150.0	-500.0	0.00009	1150.0	-550.0	0.00010	1150.0	-600.0	0.00012
1150.0	-650.0	0.00012						

1

MAX 50
1-HR
SGROUPS 1

*** WHITMOYER INC. 1984 2ND QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00001	14	173	-100.0	-300.0	26	0.00001	12	173	-100.0	-350.0
2	0.00001	14	173	-100.0	-250.0	27	0.00001	14	177	200.0	-200.0
3	0.00001	13	173	-100.0	-250.0	28	0.00001	13	145	300.0	-100.0
4	0.00001	12	173	-100.0	-300.0	29	0.00001	13	177	150.0	-250.0
5	0.00001	13	173	-100.0	-300.0	30	0.00001	14	173	-100.0	-350.0
6	0.00001	11	173	0.0	-300.0	31	0.00001	12	145	350.0	-100.0
7	0.00001	11	173	-50.0	-300.0	32	0.00001	12	145	350.0	-100.0
8	0.00001	13	173	-150.0	-300.0	33	0.00001	13	117	250.0	-150.0
9	0.00001	13	177	200.0	-250.0	34	0.00001	11	173	-50.0	-250.0
10	0.00001	12	173	-100.0	-250.0	35	0.00001	13	177	200.0	-200.0
11	0.00001	11	173	0.0	-350.0	36	0.00001	13	173		
12	0.00001	11	173	0.0	-250.0	37	0.00001	13	145		
13	0.00001	14	173	-150.0	-300.0	38	0.00001	13	145	-----	-----

14	0.00001	11	163	200.0	-250.0	39	0.00001	11	164	300.0	-150.0
15	0.00001	12	177	200.0	-250.0	40	0.00001	14	173	-150.0	-350.0
16	0.00001	12	163	200.0	-250.0	41	0.00001	13	173	-100.0	-200.0
17	0.00001	12	145	300.0	-100.0	42	0.00001	12	177	150.0	-300.0
18	0.00001	12	177	150.0	-250.0	43	0.00001	14	173	-150.0	-250.0
19	0.00001	14	177	200.0	-250.0	44	0.00001	13	117	300.0	-200.0
20	0.00001	13	173	-150.0	-250.0	45	0.00001	14	177	250.0	-200.0
21	0.00001	13	117	300.0	-150.0	46	0.00001	12	173	-150.0	-350.0
22	0.00001	11	173	-50.0	-350.0	47	0.00001	14	173	-50.0	-250.0
23	0.00001	14	177	250.0	-250.0	48	0.00001	13	173	-100.0	-350.0
24	0.00001	12	173	-150.0	-300.0	49	0.00001	12	163	250.0	-250.0
25	0.00001	12	177	200.0	-300.0	50	0.00001	13	117	350.0	-200.0

RUN ENDED ON 09-04-90 AT 13:02:30

ISCST - VERSION 3.4 (DATED 88348)

ISM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 13:02:34

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) :	2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) :	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) :	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) :	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) :	3
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) :	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) :	1
2-HOUR (YES=1,NO=0)	ISW(8) :	0
3-HOUR (YES=1,NO=0)	ISW(9) :	0
4-HOUR (YES=1,NO=0)	ISW(10) :	0
6-HOUR (YES=1,NO=0)	ISW(11) :	0
8-HOUR (YES=1,NO=0)	ISW(12) :	0
12-HOUR (YES=1,NO=0)	ISW(13) :	0
24-HOUR (YES=1,NO=0)	ISW(14) :	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) :	1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) :	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) :	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) :	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) :	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) :	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) :	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) :	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) :	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) :	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) :	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) :	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) :	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) :	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) :	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) :	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) :	0
NUMBER OF INPUT SOURCES	NSOURC =	1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	0
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	301

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SOURCE EMISSION RATE UNITS CONVERSION FACTOR                       TK =.10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED               ZR =  10.00  METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                       IMET =   9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION            DECAY =0.000000E+00
SURFACE STATION NO.                                               ISS = 14751
YEAR OF SURFACE DATA                                              ISY = 84
UPPER AIR STATION NO.                                             IUS = 93734
YEAR OF UPPER AIR DATA                                            IUY = 84
ALLOCATED DATA STORAGE                                          LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                      MIMIT =  2595 WORDS

              *** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT     ***

                        *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                                         (IF=1)

0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0

                  *** 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
   C      .00000E+00    .00000E+00    .00000E+00    .00000E+00    .00000E+00
   D      .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

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-400.0, -100.0),	(-400.0, -150.0),	(-400.0, -200.0),	(-400.0, -250.0),	(-400.0, -300.0),	
(-400.0, -350.0),	(-400.0, -400.0),	(-350.0, -100.0),	(-350.0, -150.0),	(-350.0, -200.0),	
(-350.0, -250.0),	(-350.0, -300.0),	(-350.0, -350.0),	(-350.0, -400.0),	(-300.0, -100.0),	
(-300.0, -150.0),	(-300.0, -200.0),	(-300.0, -250.0),	(-300.0, -300.0),	(-300.0, -350.0),	
(-300.0, -400.0),	(-250.0, -100.0),	(-250.0, -150.0),	(-250.0, -200.0),	(-250.0, -250.0),	
(-250.0, -300.0),	(-250.0, -350.0),	(-250.0, -400.0),	(-200.0, -100.0),	(-200.0, -150.0),	
(-200.0, -200.0),	(-200.0, -250.0),	(-200.0, -300.0),	(-200.0, -350.0),	(-200.0, -400.0),	
(-150.0, -100.0),	(-150.0, -150.0),	(-150.0, -200.0),	(-150.0, -250.0),	(-150.0, -300.0),	
(-150.0, -350.0),	(-150.0, -400.0),	(-100.0, -100.0),	(-100.0, -150.0),	(-100.0, -200.0),	
(-100.0, -250.0),	(-100.0, -300.0),	(-100.0, -350.0),	(-100.0, -400.0),	(350.0, -100.0),	
(350.0, -150.0),	(350.0, -200.0),	(350.0, -250.0),	(350.0, -300.0),	(350.0, -350.0),	
(350.0, -400.0),	(400.0, -100.0),	(400.0, -150.0),	(400.0, -200.0),	(400.0, -250.0),	
(400.0, -300.0),	(400.0, -350.0),	(400.0, -400.0),	(450.0, -100.0),	(450.0, -150.0),	
(450.0, -200.0),	(450.0, -250.0),	(450.0, -300.0),	(450.0, -350.0),	(450.0, -400.0),	
(500.0, -100.0),	(500.0, -150.0),	(500.0, -200.0),	(500.0, -250.0),	(500.0, -300.0),	
(500.0, -350.0),	(500.0, -400.0),	(550.0, -100.0),	(550.0, -150.0),	(550.0, -200.0),	
(550.0, -250.0),	(550.0, -300.0),	(550.0, -350.0),	(550.0, -400.0),	(600.0, -100.0),	
(600.0, -150.0),	(600.0, -200.0),	(600.0, -250.0),	(600.0, -300.0),	(600.0, -350.0),	
(600.0, -400.0),	(650.0, -100.0),	(650.0, -150.0),	(650.0, -200.0),	(650.0, -250.0),	
(650.0, -300.0),	(650.0, -350.0),	(650.0, -400.0),	(100.0, -350.0),	(100.0, -400.0),	
(100.0, -450.0),	(100.0, -500.0),	(100.0, -550.0),	(100.0, -600.0),	(100.0, -650.0),	
(150.0, -350.0),	(150.0, -400.0),	(150.0, -450.0),	(150.0, -500.0),	(150.0, -550.0),	
(150.0, -600.0),	(150.0, -650.0),	(200.0, -350.0),	(200.0, -400.0),	(200.0, -450.0),	
(200.0, -500.0),	(200.0, -550.0),	(200.0, -600.0),	(200.0, -650.0),	(250.0, -350.0),	
(250.0, -400.0),	(250.0, -450.0),	(250.0, -500.0),	(250.0, -550.0),	(250.0, -600.0),	
(250.0, -650.0),	(300.0, -350.0),	(300.0, -400.0),	(300.0, -450.0),	(300.0, -500.0),	
(300.0, -550.0),	(300.0, -600.0),	(300.0, -650.0),	(350.0, -350.0),	(350.0, -400.0),	
(350.0, -450.0),	(350.0, -500.0),	(350.0, -550.0),	(350.0, -600.0),	(350.0, -650.0),	
(400.0, -350.0),	(400.0, -400.0),	(400.0, -450.0),	(400.0, -500.0),	(400.0, -550.0),	
(400.0, -600.0),	(400.0, -650.0),	(600.0, -350.0),	(600.0, -400.0),	(600.0, -450.0),	
(600.0, -500.0),	(600.0, -550.0),	(600.0, -600.0),	(600.0, -650.0),	(650.0, -350.0),	
(650.0, -400.0),	(650.0, -450.0),	(650.0, -500.0),	(650.0, -550.0),	(650.0, -600.0),	
(650.0, -650.0),	(700.0, -350.0),	(700.0, -400.0),	(700.0, -450.0),	(700.0, -500.0),	
(700.0, -550.0),	(700.0, -600.0),	(700.0, -650.0),	(750.0, -350.0),	(750.0, -400.0),	
(750.0, -450.0),	(750.0, -500.0),	(750.0, -550.0),	(750.0, -600.0),	(750.0, -650.0),	
(800.0, -350.0),	(800.0, -400.0),	(800.0, -450.0),	(800.0, -500.0),	(800.0, -550.0),	
(800.0, -600.0),	(800.0, -650.0),	(850.0, -350.0),	(850.0, -400.0),	(850.0, -450.0),	
(850.0, -500.0),	(850.0, -550.0),	(850.0, -600.0),	(850.0, -650.0),	(900.0, -350.0),	
(900.0, -400.0),	(900.0, -450.0),	(900.0, -500.0),	(900.0, -550.0),	(900.0, -600.0),	
(900.0, -650.0),	(200.0, -100.0),	(200.0, -150.0),	(200.0, -200.0),	(200.0, -250.0),	
(200.0, -300.0),	(200.0, -350.0),	(200.0, -400.0),	(250.0, -100.0),	(250.0, -150.0),	
(250.0, -200.0),	(250.0, -250.0),	(250.0, -300.0),	(250.0, -350.0),	(250.0, -400.0),	
(300.0, -100.0),	(300.0, -150.0),	(300.0, -200.0),	(300.0, -250.0),	(300.0, -300.0),	
(300.0, -350.0),	(300.0, -400.0),	(350.0, -100.0),	(350.0, -150.0),		
(350.0, -250.0),	(350.0, -300.0),	(350.0, -350.0),	(350.0, -400.0),		
(400.0, -150.0),	(400.0, -200.0),	(400.0, -250.0),	(400.0, -300.0),		

(	400.0,	-400.0),	(	-50.0,	-100.0),	(	-50.0,	-150.0),	(	-50.0,	-200.0),	(	-50.0,	-250.0),
(	-50.0,	-300.0),	(	-50.0,	-350.0),	(	-50.0,	-400.0),	(	0.0,	-100.0),	(	0.0,	-150.0),
(	0.0,	-200.0),	(	0.0,	-250.0),	(	0.0,	-300.0),	(	0.0,	-350.0),	(	0.0,	-400.0),
(	50.0,	-100.0),	(	50.0,	-150.0),	(	50.0,	-200.0),	(	50.0,	-250.0),	(	50.0,	-300.0),
(	50.0,	-350.0),	(	50.0,	-400.0),	(	100.0,	-100.0),	(	100.0,	-150.0),	(	100.0,	-200.0),
(	100.0,	-250.0),	(	100.0,	-300.0),	(	100.0,	-350.0),	(	100.0,	-400.0),	(	150.0,	-100.0),
(	150.0,	-150.0),	(	150.0,	-200.0),	(	150.0,	-250.0),	(	150.0,	-300.0),	(	150.0,	-350.0),
(	150.0,	-400.0),	(	950.0,	-350.0),	(	950.0,	-400.0),	(	950.0,	-450.0),	(	950.0,	-500.0),
(	950.0,	-550.0),	(	950.0,	-600.0),	(	950.0,	-650.0),	(	1000.0,	-350.0),	(	1000.0,	-400.0),
(	1000.0,	-450.0),	(	1000.0,	-500.0),	(	1000.0,	-550.0),	(	1000.0,	-600.0),	(	1000.0,	-650.0),
(	1050.0,	-350.0),	(	1050.0,	-400.0),	(	1050.0,	-450.0),	(	1050.0,	-500.0),	(	1050.0,	-550.0),
(	1050.0,	-600.0),	(	1050.0,	-650.0),	(	1100.0,	-350.0),	(	1100.0,	-400.0),	(	1100.0,	-450.0),
(	1100.0,	-500.0),	(	1100.0,	-550.0),	(	1100.0,	-600.0),	(	1100.0,	-650.0),	(	1150.0,	-350.0),
(	1150.0,	-400.0),	(	1150.0,	-450.0),	(	1150.0,	-500.0),	(	1150.0,	-550.0),	(	1150.0,	-600.0),
(	1150.0,	-650.0),	(											

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	[illegible]
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0	-300.0	
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0	-100.0	
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0	-250.0	[illegible]

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	[illegible]
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0	-3[illegible]	
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0	-1[illegible]	
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0	-2[illegible]	[illegible]

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

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*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

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*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** SOURCE DATA ***

SOURCE	T Y P E	N A PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) NUMBER TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	TYPE=0	TYPE=0	TYPE=0

NUMBER	E	E	CATS.	*PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1	0	0	1	0.22680E+02	0.0	0.0	146.3	65.00	344.30	23.55	1.20	0.00	0.00	0.00

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
1.00000,

SETTLING VELOCITY(METERS/SEC) =
0.0004,

SURFACE REFLECTION COEFFICIENT =
0.92000,

* CALM HOURS (=1) FOR DAY 183 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 184 *	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 185 *	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 186 *	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 187 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 188 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 189 *	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 190 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 191 *	1	1	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	1
* CALM HOURS (=1) FOR DAY 192 *	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1
* CALM HOURS (=1) FOR DAY 193 *	0	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 194 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 195 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 196 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 197 *	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 198 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 199 *	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 200 *	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 201 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 202 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 203 *	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 204 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 205 *	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 207 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 208 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 210 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 211 *	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 212 *	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 213 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 214 *	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 215 *	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 216 *	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	
* CALM HOURS (=1) FOR DAY 217 *	0	1	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 218 *	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	

* CALM HOURS (=1) FOR DAY 219 *	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 220 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0
* CALM HOURS (=1) FOR DAY 221 *	0	1	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 222 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 223 *	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 224 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 225 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 226 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 227 *	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 228 *	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 229 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 230 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
* CALM HOURS (=1) FOR DAY 231 *	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 232 *	1	1	1	0	0	1	1	0	0	1	1	0	0	0	0	1	0	0	1	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 233 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 234 *	1	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 235 *	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 236 *	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 237 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 238 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 239 *	1	1	1	1	1	1	0	0	0	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 240 *	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 241 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 242 *	1	1	1	1	1	1	1	1	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 243 *	0	1	1	1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 245 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 246 *	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	1	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 247 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 249 *	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
* CALM HOURS (=1) FOR DAY 250 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 251 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 252 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 253 *	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 254 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 255 *	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 256 *	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 257 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 258 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 259 *	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 260 *	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 261 *	1	1	1	0	1	0	0	0	0	0	0	1	1	0	1	1	1	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 262 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 263 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 264 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 265 *	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1	1	0	1	1
* CALM HOURS (=1) FOR DAY 266 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 267 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 268 *	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 269 *	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 270 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 271 *	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 272 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
* CALM HOURS (=1) FOR DAY 273 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 274 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0			

1

'N'-DAY

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
-400.0	-100.0	0.00003	-400.0	-150.0	0.00001	-400.0	-200.0	0.00001
-400.0	-250.0	0.00001	-400.0	-300.0	0.00001	-400.0	-350.0	0.00000
-400.0	-400.0	0.00000	-350.0	-100.0	0.00002	-350.0	-150.0	0.00001
-350.0	-200.0	0.00001	-350.0	-250.0	0.00000	-350.0	-300.0	0.00000
-350.0	-350.0	0.00000	-350.0	-400.0	0.00000	-300.0	-100.0	0.00001
-300.0	-150.0	0.00001	-300.0	-200.0	0.00000	-300.0	-250.0	0.00000
-300.0	-300.0	0.00000	-300.0	-350.0	0.00000	-300.0	-400.0	0.00000
-250.0	-100.0	0.00000	-250.0	-150.0	0.00000	-250.0	-200.0	0.00000
-250.0	-250.0	0.00000	-250.0	-300.0	0.00000	-250.0	-350.0	0.00000
-250.0	-400.0	0.00000	-200.0	-100.0	0.00000	-200.0	-150.0	0.00000
-200.0	-200.0	0.00000	-200.0	-250.0	0.00000	-200.0	-300.0	0.00000
-200.0	-350.0	0.00000	-200.0	-400.0	0.00000	-150.0	-100.0	0.00000
-150.0	-150.0	0.00000	-150.0	-200.0	0.00000	-150.0	-250.0	0.00000
-150.0	-300.0	0.00000	-150.0	-350.0	0.00000	-150.0	-400.0	0.00001
-100.0	-100.0	0.00000	-100.0	-150.0	0.00000	-100.0	-200.0	0.00000
-100.0	-250.0	0.00000	-100.0	-300.0	0.00001	-100.0	-350.0	0.00001
-100.0	-400.0	0.00002	350.0	-100.0	0.00012	350.0	-150.0	0.00015
350.0	-200.0	0.00017	350.0	-250.0	0.00020	350.0	-300.0	0.00018
350.0	-350.0	0.00016	350.0	-400.0	0.00015	400.0	-100.0	0.00012
400.0	-150.0	0.00015	400.0	-200.0	0.00019	400.0	-250.0	0.00019
400.0	-300.0	0.00018	400.0	-350.0	0.00016	400.0	-400.0	0.00014
450.0	-100.0	0.00012	450.0	-150.0	0.00016	450.0	-200.0	0.00018
450.0	-250.0	0.00019	450.0	-300.0	0.00018	450.0	-350.0	0.00016
450.0	-400.0	0.00014	500.0	-100.0	0.00011	500.0	-150.0	0.00014
500.0	-200.0	0.00016	500.0	-250.0	0.00017	500.0	-300.0	0.00017
500.0	-350.0	0.00015	500.0	-400.0	0.00014	550.0	-100.0	0.00011
550.0	-150.0	0.00013	550.0	-200.0	0.00015	550.0	-250.0	0.00016
550.0	-300.0	0.00016	550.0	-350.0	0.00015	550.0	-400.0	0.00014
600.0	-100.0	0.00010	600.0	-150.0	0.00012	600.0	-200.0	0.00013
600.0	-250.0	0.00014	600.0	-300.0	0.00014	600.0	-350.0	0.00014
600.0	-400.0	0.00014	650.0	-100.0	0.00009	650.0	-150.0	0.00010
650.0	-200.0	0.00012	650.0	-250.0	0.00013	650.0	-300.0	0.00013
650.0	-350.0	0.00013	650.0	-400.0	0.00013	100.0	-350.0	0.00009
100.0	-400.0	0.00010	100.0	-450.0	0.00010	100.0	-500.0	0.00010
100.0	-550.0	0.00010	100.0	-600.0	0.00009	100.0	-650.0	0.00008
150.0	-350.0	0.00013	150.0	-400.0	0.00013	150.0	-450.0	0.00014
150.0	-500.0	0.00013	150.0	-550.0	0.00011	150.0	-600.0	0.00011
150.0	-650.0	0.00009	200.0	-350.0	0.00014	200.0	-400.0	0.00016

'N'-DAY
DAYS

1

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
200.0	-450.0	0.00016	200.0	-500.0	0.00015	200.0	-550.0	0.00014
200.0	-600.0	0.00013	200.0	-650.0	0.00011	250.0	-350.0	0.00017
250.0	-400.0	0.00017	250.0	-450.0	0.00017	250.0	-500.0	0.00016
250.0	-550.0	0.00015	250.0	-600.0	0.00014	250.0	-650.0	0.00012
300.0	-350.0	0.00017	300.0	-400.0	0.00016	300.0	-450.0	0.00017
300.0	-500.0	0.00016	300.0	-550.0	0.00015	300.0	-600.0	0.00013
300.0	-650.0	0.00012	350.0	-350.0	0.00016	350.0	-400.0	0.00015
350.0	-450.0	0.00015	350.0	-500.0	0.00015	350.0	-550.0	0.00014
350.0	-600.0	0.00013	350.0	-650.0	0.00012	400.0	-350.0	0.00016
400.0	-400.0	0.00015	400.0	-450.0	0.00014	400.0	-500.0	0.00013
400.0	-550.0	0.00013	400.0	-600.0	0.00012	400.0	-650.0	0.00011
600.0	-350.0	0.00013	600.0	-400.0	0.00013	600.0	-450.0	0.00012
600.0	-500.0	0.00011	600.0	-550.0	0.00009	600.0	-600.0	0.00008
600.0	-650.0	0.00008	650.0	-350.0	0.00012	650.0	-400.0	0.00012
650.0	-450.0	0.00012	650.0	-500.0	0.00011	650.0	-550.0	0.00009
650.0	-600.0	0.00008	650.0	-650.0	0.00007	700.0	-350.0	0.00012
700.0	-400.0	0.00012	700.0	-450.0	0.00012	700.0	-500.0	0.00011
700.0	-550.0	0.00010	700.0	-600.0	0.00009	700.0	-650.0	0.00008
750.0	-350.0	0.00011	750.0	-400.0	0.00011	750.0	-450.0	0.00011
750.0	-500.0	0.00011	750.0	-550.0	0.00011	750.0	-600.0	0.00010
750.0	-650.0	0.00009	800.0	-350.0	0.00010	800.0	-400.0	0.00010
800.0	-450.0	0.00011	800.0	-500.0	0.00011	800.0	-550.0	0.00011
800.0	-600.0	0.00010	800.0	-650.0	0.00009	850.0	-350.0	0.00010
850.0	-400.0	0.00010	850.0	-450.0	0.00010	850.0	-500.0	0.00010
850.0	-550.0	0.00010	850.0	-600.0	0.00010	850.0	-650.0	0.00009
900.0	-350.0	0.00009	900.0	-400.0	0.00009	900.0	-450.0	0.00009
900.0	-500.0	0.00009	900.0	-550.0	0.00009	900.0	-600.0	0.00009
900.0	-650.0	0.00009	200.0	-100.0	0.00005	200.0	-150.0	0.00009
200.0	-200.0	0.00011	200.0	-250.0	0.00014	200.0	-300.0	0.00013
200.0	-350.0	0.00014	200.0	-400.0	0.00016	250.0	-100.0	0.00008
250.0	-150.0	0.00012	250.0	-200.0	0.00016	250.0	-250.0	0.00015
250.0	-300.0	0.00015	250.0	-350.0	0.00016	250.0	-400.0	0.00017
300.0	-100.0	0.00011	300.0	-150.0	0.00014	300.0	-200.0	0.00016
300.0	-250.0	0.00016	300.0	-300.0	0.00017	300.0	-350.0	0.00017
300.0	-400.0	0.00016	350.0	-100.0	0.00012	350.0	-150.0	0.00015
350.0	-200.0	0.00017	350.0	-250.0	0.00020	350.0	-300.0	0.00018
350.0	-350.0	0.00016	350.0	-400.0	0.00015	400.0	-100.0	0.00012
400.0	-150.0	0.00015	400.0	-200.0	0.00017	400.0	-250.0	0.00019

'N'-DAY
92 DAYS
SCROUP8

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
400.0	-300.0	0.00019	400.0	-350.0	0.00016	400.0	-400.0	0.00015
-50.0	-100.0	0.00000	-50.0	-150.0	0.00000	-50.0	-200.0	0.00000
-50.0	-250.0	0.00001	-50.0	-300.0	0.00003	-50.0	-350.0	0.00004
-50.0	-400.0	0.00005	0.0	-100.0	0.00000	0.0	-150.0	0.00000
0.0	-200.0	0.00001	0.0	-250.0	0.00002	0.0	-300.0	0.00004
0.0	-350.0	0.00006	0.0	-400.0	0.00007	50.0	-100.0	0.00000
50.0	-150.0	0.00000	50.0	-200.0	0.00002	50.0	-250.0	0.00004
50.0	-300.0	0.00006	50.0	-350.0	0.00008	50.0	-400.0	0.00008
100.0	-100.0	0.00000	100.0	-150.0	0.00002	100.0	-200.0	0.00004
100.0	-250.0	0.00008	100.0	-300.0	0.00009	100.0	-350.0	0.00010
100.0	-400.0	0.00010	150.0	-100.0	0.00003	150.0	-150.0	0.00004
150.0	-200.0	0.00008	150.0	-250.0	0.00011	150.0	-300.0	0.00012
150.0	-350.0	0.00013	150.0	-400.0	0.00013	950.0	-350.0	0.00008
950.0	-400.0	0.00008	950.0	-450.0	0.00008	950.0	-500.0	0.00009
950.0	-550.0	0.00009	950.0	-600.0	0.00008	950.0	-650.0	0.00008
1000.0	-350.0	0.00007	1000.0	-400.0	0.00008	1000.0	-450.0	0.00008
1000.0	-500.0	0.00008	1000.0	-550.0	0.00008	1000.0	-600.0	0.00008
1000.0	-650.0	0.00008	1050.0	-350.0	0.00007	1050.0	-400.0	0.00007
1050.0	-450.0	0.00007	1050.0	-500.0	0.00008	1050.0	-550.0	0.00008
1050.0	-600.0	0.00007	1050.0	-650.0	0.00007	1100.0	-350.0	0.00006
1100.0	-400.0	0.00006	1100.0	-450.0	0.00007	1100.0	-500.0	0.00007
1100.0	-550.0	0.00007	1100.0	-600.0	0.00007	1100.0	-650.0	0.00007
1150.0	-350.0	0.00006	1150.0	-400.0	0.00006	1150.0	-450.0	0.00006
1150.0	-500.0	0.00006	1150.0	-550.0	0.00006	1150.0	-600.0	0.00007
1150.0	-650.0	0.00006						

1

MAX 50
1-HR
SCROUPS 1

*** WHITMOYER INC. 1984 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00001	13	207	100.0	-250.0	26	0.00001	12	229	250.0	-200.0
2	0.00001	13	221	200.0	-250.0	27	0.00001	11	[illegible]	[illegible]	[illegible]
3	0.00001	14	195	200.0	-250.0	28	0.00001	14	[illegible]		
4	0.00001	13	207	150.0	-300.0	29	0.00001	12	[illegible]		
5	0.00001	13	207	150.0	-250.0	30	0.00001	13	221	200.0	-300.0

6	0.00001	12	229	200.0	-250.0	31	0.00001	11	185	300.0	-200.0
7	0.00001	12	229	200.0	-200.0	32	0.00001	11	221	300.0	-200.0
8	0.00001	13	184	300.0	-100.0	33	0.00001	14	201	250.0	-300.0
9	0.00001	11	190	200.0	-250.0	34	0.00001	14	184	350.0	-100.0
10	0.00001	12	229	250.0	-250.0	35	0.00001	14	184	350.0	-100.0
11	0.00001	11	213	250.0	-200.0	36	0.00001	12	231	300.0	-200.0
12	0.00001	11	190	200.0	-200.0	37	0.00001	13	194	350.0	-100.0
13	0.00001	11	190	250.0	-250.0	38	0.00001	13	194	350.0	-100.0
14	0.00001	14	201	250.0	-150.0	39	0.00001	14	195	250.0	-250.0
15	0.00001	13	207	100.0	-300.0	40	0.00001	11	185	250.0	-200.0
16	0.00001	14	184	300.0	-100.0	41	0.00001	12	221	250.0	-150.0
17	0.00001	14	201	300.0	-150.0	42	0.00001	11	190	250.0	-200.0
18	0.00001	13	221	150.0	-250.0	43	0.00001	12	196	300.0	-100.0
19	0.00001	12	196	300.0	-150.0	44	0.00001	13	221	150.0	-200.0
20	0.00001	14	191	300.0	-150.0	45	0.00001	11	213	200.0	-200.0
21	0.00001	12	194	300.0	-150.0	46	0.00001	12	221	300.0	-200.0
22	0.00001	11	185	250.0	-150.0	47	0.00001	14	195	200.0	-200.0
23	0.00001	11	185	300.0	-150.0	48	0.00001	13	196	300.0	-100.0
24	0.00001	12	221	300.0	-150.0	49	0.00001	12	184	300.0	-100.0
25	0.00001	11	221	250.0	-200.0	50	0.00001	13	184	250.0	-100.0

RUN ENDED ON 09-04-90 AT 13:06:10

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6991 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 13:06:15

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	1
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	1
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) =	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) =	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) =	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) =	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) =	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) =	0
NUMBER OF INPUT SOURCES	NSOURC =	1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	0
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	301

SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 14751
YEAR OF SURFACE DATA	ISY = 87
UPPER AIR STATION NO.	IUS = 93734
YEAR OF UPPER AIR DATA	IUY = 87
ALLOCATED DATA STORAGE	LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 2595 WORDS

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0
```

*** 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+[illegible]	[illegible]
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+[illegible]	
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+[illegible]	
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

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-400.0, -100.0),	(-400.0, -150.0),	(-400.0, -200.0),	(-400.0, -250.0),	(-400.0, -300.0),
(-400.0, -350.0),	(-400.0, -400.0),	(-350.0, -100.0),	(-350.0, -150.0),	(-350.0, -200.0),
(-350.0, -250.0),	(-350.0, -300.0),	(-350.0, -350.0),	(-350.0, -400.0),	(-300.0, -100.0),
(-300.0, -150.0),	(-300.0, -200.0),	(-300.0, -250.0),	(-300.0, -300.0),	(-300.0, -350.0),
(-300.0, -400.0),	(-250.0, -100.0),	(-250.0, -150.0),	(-250.0, -200.0),	(-250.0, -250.0),
(-250.0, -300.0),	(-250.0, -350.0),	(-250.0, -400.0),	(-200.0, -100.0),	(-200.0, -150.0),
(-200.0, -200.0),	(-200.0, -250.0),	(-200.0, -300.0),	(-200.0, -350.0),	(-200.0, -400.0),
(-150.0, -100.0),	(-150.0, -150.0),	(-150.0, -200.0),	(-150.0, -250.0),	(-150.0, -300.0),
(-150.0, -350.0),	(-150.0, -400.0),	(-100.0, -100.0),	(-100.0, -150.0),	(-100.0, -200.0),
(-100.0, -250.0),	(-100.0, -300.0),	(-100.0, -350.0),	(-100.0, -400.0),	(350.0, -100.0),
(350.0, -150.0),	(350.0, -200.0),	(350.0, -250.0),	(350.0, -300.0),	(350.0, -350.0),
(350.0, -400.0),	(400.0, -100.0),	(400.0, -150.0),	(400.0, -200.0),	(400.0, -250.0),
(400.0, -300.0),	(400.0, -350.0),	(400.0, -400.0),	(450.0, -100.0),	(450.0, -150.0),
(450.0, -200.0),	(450.0, -250.0),	(450.0, -300.0),	(450.0, -350.0),	(450.0, -400.0),
(500.0, -100.0),	(500.0, -150.0),	(500.0, -200.0),	(500.0, -250.0),	(500.0, -300.0),
(500.0, -350.0),	(500.0, -400.0),	(550.0, -100.0),	(550.0, -150.0),	(550.0, -200.0),
(550.0, -250.0),	(550.0, -300.0),	(550.0, -350.0),	(550.0, -400.0),	(600.0, -100.0),
(600.0, -150.0),	(600.0, -200.0),	(600.0, -250.0),	(600.0, -300.0),	(600.0, -350.0),
(600.0, -400.0),	(650.0, -100.0),	(650.0, -150.0),	(650.0, -200.0),	(650.0, -250.0),
(650.0, -300.0),	(650.0, -350.0),	(650.0, -400.0),	(100.0, -350.0),	(100.0, -400.0),
(100.0, -450.0),	(100.0, -500.0),	(100.0, -550.0),	(100.0, -600.0),	(100.0, -650.0),
(150.0, -350.0),	(150.0, -400.0),	(150.0, -450.0),	(150.0, -500.0),	(150.0, -550.0),
(150.0, -600.0),	(150.0, -650.0),	(200.0, -350.0),	(200.0, -400.0),	(200.0, -450.0),
(200.0, -500.0),	(200.0, -550.0),	(200.0, -600.0),	(200.0, -650.0),	(250.0, -350.0),
(250.0, -400.0),	(250.0, -450.0),	(250.0, -500.0),	(250.0, -550.0),	(250.0, -600.0),
(250.0, -650.0),	(300.0, -350.0),	(300.0, -400.0),	(300.0, -450.0),	(300.0, -500.0),
(300.0, -550.0),	(300.0, -600.0),	(300.0, -650.0),	(350.0, -350.0),	(350.0, -400.0),
(350.0, -450.0),	(350.0, -500.0),	(350.0, -550.0),	(350.0, -600.0),	(350.0, -650.0),
(400.0, -350.0),	(400.0, -400.0),	(400.0, -450.0),	(400.0, -500.0),	(400.0, -550.0),
(400.0, -600.0),	(400.0, -650.0),	(600.0, -350.0),	(600.0, -400.0),	(600.0, -450.0),
(600.0, -500.0),	(600.0, -550.0),	(600.0, -600.0),	(600.0, -650.0),	(650.0, -350.0),
(650.0, -400.0),	(650.0, -450.0),	(650.0, -500.0),	(650.0, -550.0),	(650.0, -600.0),
(650.0, -650.0),	(700.0, -350.0),	(700.0, -400.0),	(700.0, -450.0),	(700.0, -500.0),
(700.0, -550.0),	(700.0, -600.0),	(700.0, -650.0),	(750.0, -350.0),	(750.0, -400.0),
(750.0, -450.0),	(750.0, -500.0),	(750.0, -550.0),	(750.0, -600.0),	(750.0, -650.0),
(800.0, -350.0),	(800.0, -400.0),	(800.0, -450.0),	(800.0, -500.0),	(800.0, -550.0),
(800.0, -600.0),	(800.0, -650.0),	(850.0, -350.0),	(850.0, -400.0),	(850.0, -450.0),
(850.0, -500.0),	(850.0, -550.0),	(850.0, -600.0),	(850.0, -650.0),	(900.0, -350.0),
(900.0, -400.0),	(900.0, -450.0),	(900.0, -500.0),	(900.0, -550.0),	(900.0, -600.0),
(900.0, -650.0),	(200.0, -100.0),	(200.0, -150.0),	(200.0, -200.0),	(200.0, -250.0),
(200.0, -300.0),	(200.0, -350.0),	(200.0, -400.0),	(250.0, -100.0),	(250.0, -150.0),
(250.0, -200.0),	(250.0, -250.0),	(250.0, -300.0),	(250.0, -350.0),	(250.0, -400.0),
(300.0, -100.0),	(300.0, -150.0),	(300.0, -200.0),	(300.0, -250.0),	
(300.0, -350.0),	(300.0, -400.0),	(350.0, -100.0),	(350.0, -150.0),	
(350.0, -250.0),	(350.0, -300.0),	(350.0, -350.0),	(350.0, -400.0),	(400.0, -100.0),
(400.0, -150.0),	(400.0, -200.0),	(400.0, -250.0),	(400.0, -300.0),	(400.0, -350.0),

(400.0, -400.0),	(-50.0, -100.0),	(-50.0, -150.0),	(-50.0, -200.0),	(-50.0, -250.0),
(-50.0, -300.0),	(-50.0, -350.0),	(-50.0, -400.0),	(0.0, -100.0),	(0.0, -150.0),
(0.0, -200.0),	(0.0, -250.0),	(0.0, -300.0),	(0.0, -350.0),	(0.0, -400.0),
(50.0, -100.0),	(50.0, -150.0),	(50.0, -200.0),	(50.0, -250.0),	(50.0, -300.0),
(50.0, -350.0),	(50.0, -400.0),	(100.0, -100.0),	(100.0, -150.0),	(100.0, -200.0),
(100.0, -250.0),	(100.0, -300.0),	(100.0, -350.0),	(100.0, -400.0),	(150.0, -100.0),
(150.0, -150.0),	(150.0, -200.0),	(150.0, -250.0),	(150.0, -300.0),	(150.0, -350.0),
(150.0, -400.0),	(950.0, -350.0),	(950.0, -400.0),	(950.0, -450.0),	(950.0, -500.0),
(950.0, -550.0),	(950.0, -600.0),	(950.0, -650.0),	(1000.0, -350.0),	(1000.0, -400.0),
(1000.0, -450.0),	(1000.0, -500.0),	(1000.0, -550.0),	(1000.0, -600.0),	(1000.0, -650.0),
(1050.0, -350.0),	(1050.0, -400.0),	(1050.0, -450.0),	(1050.0, -500.0),	(1050.0, -550.0),
(1050.0, -600.0),	(1050.0, -650.0),	(1100.0, -350.0),	(1100.0, -400.0),	(1100.0, -450.0),
(1100.0, -500.0),	(1100.0, -550.0),	(1100.0, -600.0),	(1100.0, -650.0),	(1150.0, -350.0),
(1150.0, -400.0),	(1150.0, -450.0),	(1150.0, -500.0),	(1150.0, -550.0),	(1150.0, -600.0),
(1150.0, -650.0),				

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	146.30429
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0		
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0		
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0		

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0	-.	
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0	-1	
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0	-2	

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** SOURCE DATA ***

SOURCE	T Y P E	M A X	NUMBER PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	[illegible] TYPE=0	[illegible] TYPE=0	[illegible] TYPE=0

NUMBER	E	E CATS.	*PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1	0	0	0.22680E+02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000,

SETTLING VELOCITY(METERS/SEC) :
0.0004,

SURFACE REFLECTION COEFFICIENT :
0.92000,

* CALM HOURS (=1) FOR DAY 182 *	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
* CALM HOURS (=1) FOR DAY 183 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 185 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 186 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 187 *	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 189 *	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 190 *	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	
* CALM HOURS (=1) FOR DAY 191 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 192 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 193 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 194 *	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 195 *	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 196 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
* CALM HOURS (=1) FOR DAY 197 *	0	0	1	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	
* CALM HOURS (=1) FOR DAY 198 *	0	0	1	1	1	0	1	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 199 *	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 200 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 201 *	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 203 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	
* CALM HOURS (=1) FOR DAY 204 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 205 *	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 206 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 207 *	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 208 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 210 *	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 211 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 212 *	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 214 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 215 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
* CALM HOURS (=1) FOR DAY 216 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 217 *	0	1	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 219 *	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 220 *	1	1	0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 221 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

* CALM HOURS (=1) FOR DAY 222 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 223 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 224 *	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 225 *	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 226 *	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 227 *	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 228 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 229 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 231 *	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 232 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 234 *	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 236 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 237 *	1	0	0	1	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 238 *	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 239 *	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 241 *	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 242 *	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 243 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 244 *	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 245 *	0	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 246 *	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0
* CALM HOURS (=1) FOR DAY 247 *	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 248 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 249 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 250 *	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 251 *	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 252 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 253 *	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 254 *	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 256 *	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 257 *	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
* CALM HOURS (=1) FOR DAY 258 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1
* CALM HOURS (=1) FOR DAY 259 *	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 260 *	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 261 *	0	1	0	0	0	1	1	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 263 *	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 264 *	1	1	1	1	1	1	0	0	1	1	0	1	0	0	0	0	0	1	0	1	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 265 *	1	1	1	1	1	1	0	1	1	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 269 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 270 *	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1
* CALM HOURS (=1) FOR DAY 271 *	1	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 272 *	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 273 *	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1

'N'-DAY
92 DAYS
SCROUP= 1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.

-400.0	-100.0	0.00004	-400.0	-150.0	0.00004	-400.0	-200.0	0.00006
-400.0	-250.0	0.00007	-400.0	-300.0	0.00010	-400.0	-350.0	0.00011
-400.0	-400.0	0.00012	-350.0	-100.0	0.00003	-350.0	-150.0	0.00004
-350.0	-200.0	0.00006	-350.0	-250.0	0.00009	-350.0	-300.0	0.00012
-350.0	-350.0	0.00013	-350.0	-400.0	0.00013	-300.0	-100.0	0.00003
-300.0	-150.0	0.00005	-300.0	-200.0	0.00007	-300.0	-250.0	0.00012
-300.0	-300.0	0.00014	-300.0	-350.0	0.00014	-300.0	-400.0	0.00013
-250.0	-100.0	0.00002	-250.0	-150.0	0.00004	-250.0	-200.0	0.00008
-250.0	-250.0	0.00013	-250.0	-300.0	0.00014	-250.0	-350.0	0.00013
-250.0	-400.0	0.00011	-200.0	-100.0	0.00001	-200.0	-150.0	0.00004
-200.0	-200.0	0.00008	-200.0	-250.0	0.00012	-200.0	-300.0	0.00012
-200.0	-350.0	0.00011	-200.0	-400.0	0.00009	-150.0	-100.0	0.00000
-150.0	-150.0	0.00003	-150.0	-200.0	0.00008	-150.0	-250.0	0.00009
-150.0	-300.0	0.00009	-150.0	-350.0	0.00008	-150.0	-400.0	0.00008
-100.0	-100.0	0.00000	-100.0	-150.0	0.00002	-100.0	-200.0	0.00005
-100.0	-250.0	0.00006	-100.0	-300.0	0.00008	-100.0	-350.0	0.00008
-100.0	-400.0	0.00007	350.0	-100.0	0.00008	350.0	-150.0	0.00010
350.0	-200.0	0.00011	350.0	-250.0	0.00014	350.0	-300.0	0.00016
350.0	-350.0	0.00018	350.0	-400.0	0.00018	400.0	-100.0	0.00009
400.0	-150.0	0.00011	400.0	-200.0	0.00014	400.0	-250.0	0.00014
400.0	-300.0	0.00015	400.0	-350.0	0.00016	400.0	-400.0	0.00016
450.0	-100.0	0.00010	450.0	-150.0	0.00013	450.0	-200.0	0.00014
450.0	-250.0	0.00014	450.0	-300.0	0.00014	450.0	-350.0	0.00014
450.0	-400.0	0.00015	500.0	-100.0	0.00010	500.0	-150.0	0.00012
500.0	-200.0	0.00013	500.0	-250.0	0.00014	500.0	-300.0	0.00013
500.0	-350.0	0.00013	500.0	-400.0	0.00014	550.0	-100.0	0.00010
550.0	-150.0	0.00011	550.0	-200.0	0.00013	550.0	-250.0	0.00013
550.0	-300.0	0.00013	550.0	-350.0	0.00013	550.0	-400.0	0.00013
600.0	-100.0	0.00010	600.0	-150.0	0.00011	600.0	-200.0	0.00012
600.0	-250.0	0.00012	600.0	-300.0	0.00012	600.0	-350.0	0.00012
600.0	-400.0	0.00012	650.0	-100.0	0.00009	650.0	-150.0	0.00010
650.0	-200.0	0.00011	650.0	-250.0	0.00011	650.0	-300.0	0.00012
650.0	-350.0	0.00011	650.0	-400.0	0.00011	100.0	-350.0	0.00011
100.0	-400.0	0.00013	100.0	-450.0	0.00013	100.0	-500.0	0.00013
100.0	-550.0	0.00012	100.0	-600.0	0.00011	100.0	-650.0	0.00010
150.0	-350.0	0.00013	150.0	-400.0	0.00014	150.0	-450.0	0.00015
150.0	-500.0	0.00014	150.0	-550.0	0.00013	150.0	-600.0	0.00012
150.0	-650.0	0.00011	200.0	-350.0	0.00014	200.0	-400.0	0.00016

1

'N'-DAY
92 DAYS
SGROUP# 1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION - GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
200.0	-450.0	0.00017	200.0	-500.0	0.00015	200.0		

200.0	-600.0	0.00013	200.0	-650.0	0.00012	250.0	-350.0	0.00018
250.0	-400.0	0.00018	250.0	-450.0	0.00019	250.0	-500.0	0.00017
250.0	-550.0	0.00016	250.0	-600.0	0.00014	250.0	-650.0	0.00012
300.0	-350.0	0.00019	300.0	-400.0	0.00019	300.0	-450.0	0.00020
300.0	-500.0	0.00019	300.0	-550.0	0.00018	300.0	-600.0	0.00015
300.0	-650.0	0.00013	350.0	-350.0	0.00018	350.0	-400.0	0.00018
350.0	-450.0	0.00019	350.0	-500.0	0.00019	350.0	-550.0	0.00019
350.0	-600.0	0.00016	350.0	-650.0	0.00015	400.0	-350.0	0.00016
400.0	-400.0	0.00017	400.0	-450.0	0.00018	400.0	-500.0	0.00017
400.0	-550.0	0.00018	400.0	-600.0	0.00016	400.0	-650.0	0.00015
600.0	-350.0	0.00011	600.0	-400.0	0.00011	600.0	-450.0	0.00011
600.0	-500.0	0.00011	600.0	-550.0	0.00011	600.0	-600.0	0.00011
600.0	-650.0	0.00010	650.0	-350.0	0.00011	650.0	-400.0	0.00010
650.0	-450.0	0.00010	650.0	-500.0	0.00011	650.0	-550.0	0.00010
650.0	-600.0	0.00010	650.0	-650.0	0.00010	700.0	-350.0	0.00010
700.0	-400.0	0.00011	700.0	-450.0	0.00010	700.0	-500.0	0.00010
700.0	-550.0	0.00010	700.0	-600.0	0.00010	700.0	-650.0	0.00010
750.0	-350.0	0.00010	750.0	-400.0	0.00010	750.0	-450.0	0.00010
750.0	-500.0	0.00010	750.0	-550.0	0.00010	750.0	-600.0	0.00010
750.0	-650.0	0.00010	800.0	-350.0	0.00010	800.0	-400.0	0.00009
800.0	-450.0	0.00010	800.0	-500.0	0.00010	800.0	-550.0	0.00010
800.0	-600.0	0.00010	800.0	-650.0	0.00009	850.0	-350.0	0.00009
850.0	-400.0	0.00009	850.0	-450.0	0.00009	850.0	-500.0	0.00009
850.0	-550.0	0.00009	850.0	-600.0	0.00009	850.0	-650.0	0.00009
900.0	-350.0	0.00009	900.0	-400.0	0.00009	900.0	-450.0	0.00009
900.0	-500.0	0.00008	900.0	-550.0	0.00009	900.0	-600.0	0.00009
900.0	-650.0	0.00008	200.0	-100.0	0.00002	200.0	-150.0	0.00005
200.0	-200.0	0.00008	200.0	-250.0	0.00013	200.0	-300.0	0.00012
200.0	-350.0	0.00014	200.0	-400.0	0.00016	250.0	-100.0	0.00005
250.0	-150.0	0.00006	250.0	-200.0	0.00010	250.0	-250.0	0.00013
250.0	-300.0	0.00015	250.0	-350.0	0.00016	250.0	-400.0	0.00018
300.0	-100.0	0.00007	300.0	-150.0	0.00009	300.0	-200.0	0.00010
300.0	-250.0	0.00012	300.0	-300.0	0.00016	300.0	-350.0	0.00019
300.0	-400.0	0.00019	350.0	-100.0	0.00008	350.0	-150.0	0.00010
350.0	-200.0	0.00011	350.0	-250.0	0.00014	350.0	-300.0	0.00016
350.0	-350.0	0.00018	350.0	-400.0	0.00018	400.0	-100.0	0.00009
400.0	-150.0	0.00011	400.0	-200.0	0.00012	400.0	-250.0	0.00014

1

'M'-DAY
92 DAYS
SGROUP# 1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 92-DAY TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	DEP.	- X -	- Y -	DEP.	- X -	- Y -	DEP.
400.0	-300.0	0.00016	400.0	-350.0	0.00016	400.0		0.00017
-50.0	-100.0	0.00000	-50.0	-150.0	0.00000	-50.0		
-50.0	-250.0	0.00005	-50.0	-300.0	0.00007	-50.0		
-50.0	-400.0	0.00008	0.0	-100.0	0.00000	0.0	-150.0	

0.0	-200.0	0.00002	0.0	-250.0	0.00005	0.0	-300.0	0.00008
0.0	-350.0	0.00010	0.0	-400.0	0.00010	50.0	-100.0	0.00000
50.0	-150.0	0.00000	50.0	-200.0	0.00003	50.0	-250.0	0.00006
50.0	-300.0	0.00010	50.0	-350.0	0.00011	50.0	-400.0	0.00012
100.0	-100.0	0.00000	100.0	-150.0	0.00001	100.0	-200.0	0.00003
100.0	-250.0	0.00008	100.0	-300.0	0.00011	100.0	-350.0	0.00013
100.0	-400.0	0.00013	150.0	-100.0	0.00001	150.0	-150.0	0.00002
150.0	-200.0	0.00006	150.0	-250.0	0.00009	150.0	-300.0	0.00011
150.0	-350.0	0.00013	150.0	-400.0	0.00014	950.0	-350.0	0.00008
950.0	-400.0	0.00008	950.0	-450.0	0.00008	950.0	-500.0	0.00008
950.0	-550.0	0.00008	950.0	-600.0	0.00008	950.0	-650.0	0.00008
1000.0	-350.0	0.00007	1000.0	-400.0	0.00008	1000.0	-450.0	0.00008
1000.0	-500.0	0.00008	1000.0	-550.0	0.00007	1000.0	-600.0	0.00008
1000.0	-650.0	0.00008	1050.0	-350.0	0.00007	1050.0	-400.0	0.00007
1050.0	-450.0	0.00007	1050.0	-500.0	0.00007	1050.0	-550.0	0.00007
1050.0	-600.0	0.00007	1050.0	-650.0	0.00007	1100.0	-350.0	0.00006
1100.0	-400.0	0.00006	1100.0	-450.0	0.00007	1100.0	-500.0	0.00007
1100.0	-550.0	0.00007	1100.0	-600.0	0.00006	1100.0	-650.0	0.00006
1150.0	-350.0	0.00006	1150.0	-400.0	0.00006	1150.0	-450.0	0.00006
1150.0	-500.0	0.00006	1150.0	-550.0	0.00006	1150.0	-600.0	0.00006
1150.0	-650.0	0.00006						

1

MAX 50
1-HR
SGROUP# 1

*** WHITMOYER INC. 1987 3RD QTR- ARSENIC DEP UPPER- HOT SPOT ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00001	13	199	-150.0	-250.0	26	0.00001	11	198	-100.0	-250.0
2	0.00001	12	208	-150.0	-250.0	27	0.00001	12	233	-150.0	-200.0
3	0.00001	11	211	-150.0	-250.0	28	0.00001	13	199	-200.0	-250.0
4	0.00001	12	233	-150.0	-250.0	29	0.00001	12	199	50.0	-300.0
5	0.00001	12	199	0.0	-300.0	30	0.00001	12	208	-200.0	-250.0
6	0.00001	11	198	-150.0	-250.0	31	0.00001	11	211	-200.0	-250.0
7	0.00001	12	223	50.0	-300.0	32	0.00001	13	199	-150.0	-200.0
8	0.00001	12	223	50.0	-250.0	33	0.00001	13	211	-150.0	-200.0
9	0.00001	12	223	100.0	-300.0	34	0.00001	12	223	100.0	-250.0
10	0.00001	13	211	-200.0	-250.0	35	0.00001	12	233	-200.0	-300.0
11	0.00001	13	211	-200.0	-200.0	36	0.00001	12	208	-150.0	-200.0
12	0.00001	12	199	0.0	-250.0	37	0.00001	11	194	-250.0	-100.0
13	0.00001	11	198	-150.0	-300.0	38	0.00001	11	211	-150.0	-200.0
14	0.00001	11	210	-100.0	-300.0	39	0.00001	11	210		
15	0.00001	11	194	-300.0	-100.0	40	0.00001	13	199		
16	0.00001	12	199	0.0	-350.0	41	0.00001	12	211	-----	-----

17	0.00001	11	208	200.0	-250.0	42	0.00001	12	208	-200.0	-300.0
18	0.00001	13	199	-150.0	-300.0	43	0.00001	11	205	300.0	-150.0
19	0.00001	12	208	-150.0	-300.0	44	0.00001	11	211	-200.0	-300.0
20	0.00001	11	211	-150.0	-300.0	45	0.00001	12	223	100.0	-350.0
21	0.00001	11	193	250.0	-200.0	46	0.00001	12	211	250.0	-150.0
22	0.00001	12	233	-200.0	-250.0	47	0.00001	11	194	-300.0	-150.0
23	0.00001	12	233	-150.0	-300.0	48	0.00001	12	223	100.0	-350.0
24	0.00001	13	211	-250.0	-250.0	49	0.00001	11	210	-100.0	-350.0
25	0.00001	12	190	300.0	-150.0	50	0.00001	11	198	-200.0	-300.0

RUN ENDED ON 09-04-90 AT 13:10:10

MAXIMUM HOURLY ARSENIC TRIOXIDE DEPOSITION

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988. TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-05-90 AT 14:56:40

*** WHITMORE INC. 1987 4TH STR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	1
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) =	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) =	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) =	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) =	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) =	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) =	0
NUMBER OF INPUT SOURCES	NSOURC =	1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	1
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	30

```
SOURCE EMISSION RATE UNITS CONVERSION FACTOR                      TK =.10000E+04
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED              ZR =  10.00  METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                      IMET =   9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION           DECAY =0.000000E+00
SURFACE STATION NO.                                              ISS = 14751
YEAR OF SURFACE DATA                                             ISY = 87
UPPER AIR STATION NO.                                            IUS = 93734
YEAR OF UPPER AIR DATA                                           IUY = 87
ALLOCATED DATA STORAGE                                         LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                     MIMIT =  3498 WORDS
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*** WHITMOYER INC. 1987 4TH QTR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 0
```

*** 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	[illegible]
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	[illegible]
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	[illegible]
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	[illegible]

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC. 1987 4TH QTR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-400.0, -100.0),	(-400.0, -150.0),	(-400.0, -200.0),	(-400.0, -250.0),	(-400.0, -300.0),
(-400.0, -350.0),	(-400.0, -400.0),	(-350.0, -100.0),	(-350.0, -150.0),	(-350.0, -200.0),
(-350.0, -250.0),	(-350.0, -300.0),	(-350.0, -350.0),	(-350.0, -400.0),	(-300.0, -100.0),
(-300.0, -150.0),	(-300.0, -200.0),	(-300.0, -250.0),	(-300.0, -300.0),	(-300.0, -350.0),
(-300.0, -400.0),	(-250.0, -100.0),	(-250.0, -150.0),	(-250.0, -200.0),	(-250.0, -250.0),
(-250.0, -300.0),	(-250.0, -350.0),	(-250.0, -400.0),	(-200.0, -100.0),	(-200.0, -150.0),
(-200.0, -200.0),	(-200.0, -250.0),	(-200.0, -300.0),	(-200.0, -350.0),	(-200.0, -400.0),
(-150.0, -100.0),	(-150.0, -150.0),	(-150.0, -200.0),	(-150.0, -250.0),	(-150.0, -300.0),
(-150.0, -350.0),	(-150.0, -400.0),	(-100.0, -100.0),	(-100.0, -150.0),	(-100.0, -200.0),
(-100.0, -250.0),	(-100.0, -300.0),	(-100.0, -350.0),	(-100.0, -400.0),	(350.0, -100.0),
(350.0, -150.0),	(350.0, -200.0),	(350.0, -250.0),	(350.0, -300.0),	(350.0, -350.0),
(350.0, -400.0),	(400.0, -100.0),	(400.0, -150.0),	(400.0, -200.0),	(400.0, -250.0),
(400.0, -300.0),	(400.0, -350.0),	(400.0, -400.0),	(450.0, -100.0),	(450.0, -150.0),
(450.0, -200.0),	(450.0, -250.0),	(450.0, -300.0),	(450.0, -350.0),	(450.0, -400.0),
(500.0, -100.0),	(500.0, -150.0),	(500.0, -200.0),	(500.0, -250.0),	(500.0, -300.0),
(500.0, -350.0),	(500.0, -400.0),	(550.0, -100.0),	(550.0, -150.0),	(550.0, -200.0),
(550.0, -250.0),	(550.0, -300.0),	(550.0, -350.0),	(550.0, -400.0),	(600.0, -100.0),
(600.0, -150.0),	(600.0, -200.0),	(600.0, -250.0),	(600.0, -300.0),	(600.0, -350.0),
(600.0, -400.0),	(650.0, -100.0),	(650.0, -150.0),	(650.0, -200.0),	(650.0, -250.0),
(650.0, -300.0),	(650.0, -350.0),	(650.0, -400.0),	(100.0, -350.0),	(100.0, -400.0),
(100.0, -450.0),	(100.0, -500.0),	(100.0, -550.0),	(100.0, -600.0),	(100.0, -650.0),
(150.0, -350.0),	(150.0, -400.0),	(150.0, -450.0),	(150.0, -500.0),	(150.0, -550.0),
(150.0, -600.0),	(150.0, -650.0),	(200.0, -350.0),	(200.0, -400.0),	(200.0, -450.0),
(200.0, -500.0),	(200.0, -550.0),	(200.0, -600.0),	(200.0, -650.0),	(250.0, -350.0),
(250.0, -400.0),	(250.0, -450.0),	(250.0, -500.0),	(250.0, -550.0),	(250.0, -600.0),
(250.0, -650.0),	(300.0, -350.0),	(300.0, -400.0),	(300.0, -450.0),	(300.0, -500.0),
(300.0, -550.0),	(300.0, -600.0),	(300.0, -650.0),	(350.0, -350.0),	(350.0, -400.0),
(350.0, -450.0),	(350.0, -500.0),	(350.0, -550.0),	(350.0, -600.0),	(350.0, -650.0),
(400.0, -350.0),	(400.0, -400.0),	(400.0, -450.0),	(400.0, -500.0),	(400.0, -550.0),
(400.0, -600.0),	(400.0, -650.0),	(600.0, -350.0),	(600.0, -400.0),	(600.0, -450.0),
(600.0, -500.0),	(600.0, -550.0),	(600.0, -600.0),	(600.0, -650.0),	(650.0, -350.0),
(650.0, -400.0),	(650.0, -450.0),	(650.0, -500.0),	(650.0, -550.0),	(650.0, -600.0),
(650.0, -650.0),	(700.0, -350.0),	(700.0, -400.0),	(700.0, -450.0),	(700.0, -500.0),
(700.0, -550.0),	(700.0, -600.0),	(700.0, -650.0),	(750.0, -350.0),	(750.0, -400.0),
(750.0, -450.0),	(750.0, -500.0),	(750.0, -550.0),	(750.0, -600.0),	(750.0, -650.0),
(800.0, -350.0),	(800.0, -400.0),	(800.0, -450.0),	(800.0, -500.0),	(800.0, -550.0),
(800.0, -600.0),	(800.0, -650.0),	(850.0, -350.0),	(850.0, -400.0),	(850.0, -450.0),
(850.0, -500.0),	(850.0, -550.0),	(850.0, -600.0),	(850.0, -650.0),	(900.0, -350.0),
(900.0, -400.0),	(900.0, -450.0),	(900.0, -500.0),	(900.0, -550.0),	(900.0, -600.0),
(900.0, -650.0),	(200.0, -100.0),	(200.0, -150.0),	(200.0, -200.0),	(200.0, -250.0),
(200.0, -300.0),	(200.0, -350.0),	(200.0, -400.0),	(250.0, -100.0),	(250.0, -150.0),
(250.0, -200.0),	(250.0, -250.0),	(250.0, -300.0),	(250.0, -350.0)	(250.0, -400.0),
(300.0, -100.0),	(300.0, -150.0),	(300.0, -200.0),	(300.0, -250.0)	
(300.0, -350.0),	(300.0, -400.0),	(350.0, -100.0),	(350.0, -150.0)	
(350.0, -250.0),	(350.0, -300.0),	(350.0, -350.0),	(350.0, -400.0),	
(400.0, -150.0),	(400.0, -200.0),	(400.0, -250.0),	(400.0, -300.0),	(400.0, -350.0),

(	400.0,	-400.0),	(	-50.0,	-100.0),	(	-50.0,	-150.0),	(	-50.0,	-200.0),	(	-50.0,	-250.0),
(	-50.0,	-300.0),	(	-50.0,	-350.0),	(	-50.0,	-400.0),	(	0.0,	-100.0),	(	0.0,	-150.0),
(	0.0,	-200.0),	(	0.0,	-250.0),	(	0.0,	-300.0),	(	0.0,	-350.0),	(	0.0,	-400.0),
(	50.0,	-100.0),	(	50.0,	-150.0),	(	50.0,	-200.0),	(	50.0,	-250.0),	(	50.0,	-300.0),
(	50.0,	-350.0),	(	50.0,	-400.0),	(	100.0,	-100.0),	(	100.0,	-150.0),	(	100.0,	-200.0),
(	100.0,	-250.0),	(	100.0,	-300.0),	(	100.0,	-350.0),	(	100.0,	-400.0),	(	150.0,	-100.0),
(	150.0,	-150.0),	(	150.0,	-200.0),	(	150.0,	-250.0),	(	150.0,	-300.0),	(	150.0,	-350.0),
(	150.0,	-400.0),	(	950.0,	-350.0),	(	950.0,	-400.0),	(	950.0,	-450.0),	(	950.0,	-500.0),
(	950.0,	-550.0),	(	950.0,	-600.0),	(	950.0,	-650.0),	(	1000.0,	-350.0),	(	1000.0,	-400.0),
(	1000.0,	-450.0),	(	1000.0,	-500.0),	(	1000.0,	-550.0),	(	1000.0,	-600.0),	(	1000.0,	-650.0),
(	1050.0,	-350.0),	(	1050.0,	-400.0),	(	1050.0,	-450.0),	(	1050.0,	-500.0),	(	1050.0,	-550.0),
(	1050.0,	-600.0),	(	1050.0,	-650.0),	(	1100.0,	-350.0),	(	1100.0,	-400.0),	(	1100.0,	-450.0),
(	1100.0,	-500.0),	(	1100.0,	-550.0),	(	1100.0,	-600.0),	(	1100.0,	-650.0),	(	1150.0,	-350.0),
(	1150.0,	-400.0),	(	1150.0,	-450.0),	(	1150.0,	-500.0),	(	1150.0,	-550.0),	(	1150.0,	-600.0),
(| 1150.0, | -650.0),	(											

*** WHITMOYER INC. 1987 4TH QTR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	146.30429
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0	-300.0	146.30429
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0		
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0		

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC. 1987 4TH QTR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0	-300.0	146.30429
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0		
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0		

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

*** WHITMOYER INC. 1987 4TH QTR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC. 1987 4TH QTR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

*** SOURCE DATA ***

SOURCE	TYPE	NUMBER PART.	EMISSION RATE TYPE=0,1 (MG/HOUR) TYPE=2 (MG/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	TYPE=0	TYPE=0	TYPE=0

NUMBER	E	E	CATS.	PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1	0	0	1	0.22680E+02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

*** WHITMOYER INC. 1987 4TH QTR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000,

SETTLING VELOCITY(METERS/SEC) :
0.0000,

SURFACE REFLECTION COEFFICIENT :
0.99000,

* CALM HOURS (=1) FOR DAY 275 *	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 278 *	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 279 *	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 280 *	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 282 *	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 283 *	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 285 *	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 286 *	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 287 *	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0	0	1	0	1	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 288 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 289 *	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 290 *	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 291 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 292 *	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1
* CALM HOURS (=1) FOR DAY 293 *	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 294 *	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 296 *	1	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 297 *	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 298 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 299 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 300 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 302 *	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 303 *	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 304 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 305 *	0	0	1	1	1	1	1	1	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 306 *	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	
* CALM HOURS (=1) FOR DAY 307 *	0	0	0	1	1	1	1	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 308 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 309 *	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 311 *	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 312 *	1	1	1	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 313 *	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 316 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 317 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	1	

```
* CALM HOURS (=1) FOR DAY 318 * 1 1 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 319 * 0 0 1 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 320 * 1 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 322 * 0 0 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 323 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 324 * 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 326 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 1 1
* CALM HOURS (=1) FOR DAY 327 * 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 1
* CALM HOURS (=1) FOR DAY 328 * 1 1 0 1 0 1 1 1 1 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 329 * 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 1
* CALM HOURS (=1) FOR DAY 330 * 0 1 1 1 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 333 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 337 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 341 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 342 * 0 0 0 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 343 * 1 1 1 0 0 0 0 1 0 0 1 0 0 0 0 0 1 1 1 1 1 0 1 1
* CALM HOURS (=1) FOR DAY 344 * 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 346 * 0 0 0 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 348 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 349 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 352 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 0 1
* CALM HOURS (=1) FOR DAY 353 * 0 1 0 1 0 0 1 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 354 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0
* CALM HOURS (=1) FOR DAY 355 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 356 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 357 * 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 358 * 0 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
* CALM HOURS (=1) FOR DAY 359 * 1 1 0 0 0 1 1 1 0 1 1 0 0 0 0 1 1 1 1 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 360 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 361 * 1 1 1 0 0 1 1 1 1 1 1 0 0 0 0 0 0 1 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 362 * 0 0 0 0 0 0 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 364 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 365 * 1 1 0 1 1 0 0 1 0 0 0 0 0 0 0 1 0 0 1 1 1 1 1 1 1
```

1

MAX 50
1-HR
GROUPS 1

*** WHITMOYER INC. 1987 4TH QTR-ARSENIC DEP LOW- HOT SPOT/HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION (MILLIGRAMS/METER SQUARE) *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00055	15	304	100.0	-600.0	26	0.00048	12	285	250.0	-350.0
2	0.00053	15	304	100.0	-550.0	27	0.00047	12	285	200.0	-400.0
3	0.00053	15	304	100.0	-650.0	28	0.00047	12	285		
4	0.00052	10	285	100.0	-350.0	29	0.00047	15	304		

5	0.00051	12	285	250.0	-350.0	30	0.00047	12	295	450.0	-150.0
6	0.00051	10	279	-400.0	-200.0	31	0.00047	11	292	-400.0	-150.0
7	0.00051	10	285	150.0	-450.0	32	0.00047	12	299	-300.0	-400.0
8	0.00050	12	299	-300.0	-350.0	33	0.00046	10	285	100.0	-350.0
9	0.00050	12	299	-250.0	-300.0	34	0.00046	10	285	150.0	-500.0
10	0.00050	12	279	-400.0	-200.0	35	0.00045	11	279	-400.0	-150.0
11	0.00050	12	288	200.0	-400.0	36	0.00045	10	285	100.0	-300.0
12	0.00050	12	288	200.0	-400.0	37	0.00045	12	285	250.0	-400.0
13	0.00050	11	279	-400.0	-200.0	38	0.00045	12	285	250.0	-400.0
14	0.00050	12	299	-250.0	-350.0	39	0.00045	11	288	350.0	-350.0
15	0.00049	12	287	-400.0	-200.0	40	0.00045	11	288	350.0	-350.0
16	0.00049	10	285	100.0	-400.0	41	0.00045	11	288	350.0	-350.0
17	0.00049	10	285	100.0	-400.0	42	0.00045	12	305	150.0	-450.0
18	0.00048	12	287	-350.0	-200.0	43	0.00045	10	285	100.0	-450.0
19	0.00048	10	279	-350.0	-200.0	44	0.00045	12	285	300.0	-350.0
20	0.00048	11	290	-400.0	-150.0	45	0.00045	12	285	300.0	-350.0
21	0.00048	12	288	200.0	-450.0	46	0.00045	12	288	150.0	-350.0
22	0.00048	15	304	150.0	-650.0	47	0.00045	12	288	150.0	-350.0
23	0.00048	12	279	-350.0	-200.0	48	0.00044	12	288	250.0	-450.0
24	0.00048	10	285	150.0	-400.0	49	0.00044	12	287	-400.0	-250.0
25	0.00048	10	285	150.0	-400.0	50	0.00044	11	292	-400.0	-100.0

RUN ENDED ON 09-05-90 AT 14:40:56

```
   TSCST - VERSION 3.4 (DATED 89348)

   IBM-PC VERSION (2.00)
   (C) COPYRIGHT 1988. TRINITY CONSULTANTS. INC.
   SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
   RUN BEGAN ON 09-04-90 AT 11:26:21


          *** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)                    ISW(1) =  2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)     ISW(2) =  3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)            ISW(3) =  1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)                    ISW(4) =  1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)               ISW(5) =  0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)            ISW(6) =  1

COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)
WITH THE FOLLOWING TIME PERIODS:
  HOURLY (YES=1,NO=0)                                       ISW(7) =  1
  2-HOUR (YES=1,NO=0)                                       ISW(8) =  0
  3-HOUR (YES=1,NO=0)                                       ISW(9) =  0
  4-HOUR (YES=1,NO=0)                                      ISW(10) =  0
  6-HOUR (YES=1,NO=0)                                      ISW(11) =  0
  8-HOUR (YES=1,NO=0)                                      ISW(12) =  0
  12-HOUR (YES=1,NO=0)                                     ISW(13) =  0
  24-HOUR (YES=1,NO=0)                                     ISW(14) =  0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)                        ISW(15) =  0

PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE
SPECIFIED BY ISW(7) THROUGH ISW(14):
  DAILY TABLES (YES=1,NO=0)                                 ISW(16) =  0
  HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)              ISW(17) =  0
  MAXIMUM 50 TABLES (YES=1,NO=0)                            ISW(18) =  1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)   ISW(19) =  1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)  ISW(20) =  0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)   ISW(21) =  1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)  ISW(22) =  1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)           ISW(23) =  0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)       ISW(24) =  1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1) ISW(25) =  2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)       ISW(26) =  1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)     ISW(27) =  1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)                     ISW(28) =  1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)            ISW(29) =  2
DEBUG OPTION CHOSEN (YES=1,NO=2)                            ISW(30) =  2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)         ISW(31) =  0

NUMBER OF INPUT SOURCES                                     NSOURC =  1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)                    NGROUP =  0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)         IPERD =  0
NUMBER OF X (RANGE) GRID VALUES                             NXPNTS =  0
NUMBER OF Y (THETA) GRID VALUES                             NYPNTS =  0
NUMBER OF DISCRETE RECEPTORS                                NXNYPT = 301
```

SOURCE EMISSION RATE UNITS CONVERSION FACTOR TK :.10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED ZR : 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA IMET : 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION DECAY =0.000000E+00
SURFACE STATION NO. ISS : 14751
YEAR OF SURFACE DATA ISY : 84
UPPER AIR STATION NO. IUS : 93734
YEAR OF UPPER AIR DATA IUY : 84
ALLOCATED DATA STORAGE LIMIT : 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN MIMIT : 2294 WORDS

*** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0
```

*** 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+0	[illegible]
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+0	
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+0	
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01

AR304088

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(	-400.0,	-100.0),	(	-400.0,	-150.0),	(	-400.0,	-200.0),	(	-400.0,	-250.0),	(	-400.0,	-300.0),
(	-400.0,	-350.0),	(	-400.0,	-400.0),	(	-350.0,	-100.0),	(	-350.0,	-150.0),	(	-350.0,	-200.0),
(	-350.0,	-250.0),	(	-350.0,	-300.0),	(	-350.0,	-350.0),	(	-350.0,	-400.0),	(	-300.0,	-100.0),
(	-300.0,	-150.0),	(	-300.0,	-200.0),	(	-300.0,	-250.0),	(	-300.0,	-300.0),	(	-300.0,	-350.0),
(	-300.0,	-400.0),	(	-250.0,	-100.0),	(	-250.0,	-150.0),	(	-250.0,	-200.0),	(	-250.0,	-250.0),
(	-250.0,	-300.0),	(	-250.0,	-350.0),	(	-250.0,	-400.0),	(	-200.0,	-100.0),	(	-200.0,	-150.0),
(	-200.0,	-200.0),	(	-200.0,	-250.0),	(	-200.0,	-300.0),	(	-200.0,	-350.0),	(	-200.0,	-400.0),
(	-150.0,	-100.0),	(	-150.0,	-150.0),	(	-150.0,	-200.0),	(	-150.0,	-250.0),	(	-150.0,	-300.0),
(	-150.0,	-350.0),	(	-150.0,	-400.0),	(	-100.0,	-100.0),	(	-100.0,	-150.0),	(	-100.0,	-200.0),
(	-100.0,	-250.0),	(	-100.0,	-300.0),	(	-100.0,	-350.0),	(	-100.0,	-400.0),	(	350.0,	-100.0),
(	350.0,	-150.0),	(	350.0,	-200.0),	(	350.0,	-250.0),	(	350.0,	-300.0),	(	350.0,	-350.0),
(	350.0,	-400.0),	(	400.0,	-100.0),	(	400.0,	-150.0),	(	400.0,	-200.0),	(	400.0,	-250.0),
(	400.0,	-300.0),	(	400.0,	-350.0),	(	400.0,	-400.0),	(	450.0,	-100.0),	(	450.0,	-150.0),
(	450.0,	-200.0),	(	450.0,	-250.0),	(	450.0,	-300.0),	(	450.0,	-350.0),	(	450.0,	-400.0),
(	500.0,	-100.0),	(	500.0,	-150.0),	(	500.0,	-200.0),	(	500.0,	-250.0),	(	500.0,	-300.0),
(	500.0,	-350.0),	(	500.0,	-400.0),	(	550.0,	-100.0),	(	550.0,	-150.0),	(	550.0,	-200.0),
(	550.0,	-250.0),	(	550.0,	-300.0),	(	550.0,	-350.0),	(	550.0,	-400.0),	(	600.0,	-100.0),
(	600.0,	-150.0),	(	600.0,	-200.0),	(	600.0,	-250.0),	(	600.0,	-300.0),	(	600.0,	-350.0),
(	600.0,	-400.0),	(	650.0,	-100.0),	(	650.0,	-150.0),	(	650.0,	-200.0),	(	650.0,	-250.0),
(	650.0,	-300.0),	(	650.0,	-350.0),	(	650.0,	-400.0),	(	100.0,	-350.0),	(	100.0,	-400.0),
(	100.0,	-450.0),	(	100.0,	-500.0),	(	100.0,	-550.0),	(	100.0,	-600.0),	(	100.0,	-650.0),
(	150.0,	-350.0),	(	150.0,	-400.0),	(	150.0,	-450.0),	(	150.0,	-500.0),	(	150.0,	-550.0),
(	150.0,	-600.0),	(	150.0,	-650.0),	(	200.0,	-350.0),	(	200.0,	-400.0),	(	200.0,	-450.0),
(	200.0,	-500.0),	(	200.0,	-550.0),	(	200.0,	-600.0),	(	200.0,	-650.0),	(	250.0,	-350.0),
(	250.0,	-400.0),	(	250.0,	-450.0),	(	250.0,	-500.0),	(	250.0,	-550.0),	(	250.0,	-600.0),
(	250.0,	-650.0),	(	300.0,	-350.0),	(	300.0,	-400.0),	(	300.0,	-450.0),	(	300.0,	-500.0),
(	300.0,	-550.0),	(	300.0,	-600.0),	(	300.0,	-650.0),	(	350.0,	-350.0),	(	350.0,	-400.0),
(	350.0,	-450.0),	(	350.0,	-500.0),	(	350.0,	-550.0),	(	350.0,	-600.0),	(	350.0,	-650.0),
(	400.0,	-350.0),	(	400.0,	-400.0),	(	400.0,	-450.0),	(	400.0,	-500.0),	(	400.0,	-550.0),
(	400.0,	-600.0),	(	400.0,	-650.0),	(	600.0,	-350.0),	(	600.0,	-400.0),	(	600.0,	-450.0),
(	600.0,	-500.0),	(	600.0,	-550.0),	(	600.0,	-600.0),	(	600.0,	-650.0),	(	650.0,	-350.0),
(	650.0,	-400.0),	(	650.0,	-450.0),	(	650.0,	-500.0),	(	650.0,	-550.0),	(	650.0,	-600.0),
(	650.0,	-650.0),	(	700.0,	-350.0),	(	700.0,	-400.0),	(	700.0,	-450.0),	(	700.0,	-500.0),
(	700.0,	-550.0),	(	700.0,	-600.0),	(	700.0,	-650.0),	(	750.0,	-350.0),	(	750.0,	-400.0),
(	750.0,	-450.0),	(	750.0,	-500.0),	(	750.0,	-550.0),	(	750.0,	-600.0),	(	750.0,	-650.0),
(	800.0,	-350.0),	(	800.0,	-400.0),	(	800.0,	-450.0),	(	800.0,	-500.0),	(	800.0,	-550.0),
(	800.0,	-600.0),	(	800.0,	-650.0),	(	850.0,	-350.0),	(	850.0,	-400.0),	(	850.0,	-450.0),
(	850.0,	-500.0),	(	850.0,	-550.0),	(	850.0,	-600.0),	(	850.0,	-650.0),	(	900.0,	-350.0),
(	900.0,	-400.0),	(	900.0,	-450.0),	(	900.0,	-500.0),	(	900.0,	-550.0),	(	900.0,	-600.0),
(	900.0,	-650.0),	(	200.0,	-100.0),	(	200.0,	-150.0),	(	200.0,	-200.0),	(	200.0,	-250.0),
(	200.0,	-300.0),	(	200.0,	-350.0),	(	200.0,	-400.0),	(	250.0,	-100.0),	(	250.0,	-150.0),
(	250.0,	-200.0),	(	250.0,	-250.0),	(	250.0,	-300.0),	(	250.0,	-350.0),	(	250.0,	-400.0),
(	300.0,	-100.0),	(	300.0,	-150.0),	(	300.0,	-200.0),	(	300.0,	-250.0)			
(	300.0,	-350.0),	(	300.0,	-400.0),	(	350.0,	-100.0),	(	350.0,	-150.0)			
(	350.0,	-250.0),	(	350.0,	-300.0),	(	350.0,	-350.0),	(	350.0,	-400.0)			
(	400.0,	-150.0),	(	400.0,	-200.0),	(	400.0,	-250.0),	(	400.0,	-300.0),	(	400.0,	-350.0),

(	400.0,	-400.0),	(	-50.0,	-100.0),	(	-50.0,	-150.0),	(	-50.0,	-200.0),	(	-50.0,	-250.0),
(	-50.0,	-300.0),	(	-50.0,	-350.0),	(	-50.0,	-400.0),	(	0.0,	-100.0),	(	0.0,	-150.0),
(	0.0,	-200.0),	(	0.0,	-250.0),	(	0.0,	-300.0),	(	0.0,	-350.0),	(	0.0,	-400.0),
(	50.0,	-100.0),	(	50.0,	-150.0),	(	50.0,	-200.0),	(	50.0,	-250.0),	(	50.0,	-300.0),
(	50.0,	-350.0),	(	50.0,	-400.0),	(	100.0,	-100.0),	(	100.0,	-150.0),	(	100.0,	-200.0),
(	100.0,	-250.0),	(	100.0,	-300.0),	(	100.0,	-350.0),	(	100.0,	-400.0),	(	150.0,	-100.0),
(	150.0,	-150.0),	(	150.0,	-200.0),	(	150.0,	-250.0),	(	150.0,	-300.0),	(	150.0,	-350.0),
(	150.0,	-400.0),	(	950.0,	-350.0),	(	950.0,	-400.0),	(	950.0,	-450.0),	(	950.0,	-500.0),
(	950.0,	-550.0),	(	950.0,	-600.0),	(	950.0,	-650.0),	(	1000.0,	-350.0),	(	1000.0,	-400.0),
(	1000.0,	-450.0),	(	1000.0,	-500.0),	(	1000.0,	-550.0),	(	1000.0,	-600.0),	(	1000.0,	-650.0),
(	1050.0,	-350.0),	(	1050.0,	-400.0),	(	1050.0,	-450.0),	(	1050.0,	-500.0),	(	1050.0,	-550.0),
(	1050.0,	-600.0),	(	1050.0,	-650.0),	(	1100.0,	-350.0),	(	1100.0,	-400.0),	(	1100.0,	-450.0),
(	1100.0,	-500.0),	(	1100.0,	-550.0),	(	1100.0,	-600.0),	(	1100.0,	-650.0),	(	1150.0,	-350.0),
(	1150.0,	-400.0),	(	1150.0,	-450.0),	(	1150.0,	-500.0),	(	1150.0,	-550.0),	(	1150.0,	-600.0),
(	1150.0,	-650.0),	(												

*** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0		
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0		
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0		
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0	-250.0	146.30429

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0		
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0		
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0		

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

*** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE DATA ***

SOURCE	T Y P E	A NUMBER PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	HEIGHT TYPE=0	LENGTH TYPE=0	WIDTH TYPE=0

NUMBER	E	E	CATS. *PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1	0	0	1	0.22680E+02	0.0	0.0	146.3	65.00	344.30	3.35	1.20	0.00	0.00	3.00

*** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000,

SETTLING VELOCITY(METERS/SEC) :
0.0004,

SURFACE REFLECTION COEFFICIENT :
0.92000.

* CALM HOURS (=1) FOR DAY 92 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 0 . 1
* CALM HOURS (=1) FOR DAY 93 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 94 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 95 * 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 96 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 100 * 1 1 1 0 1 1 1 0 0 0 0 1 0 1 1 1 0 0 0 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 101 * 1 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 102 * 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 103 * 1 1 1 1 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 106 * 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 107 * 0 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 108 * 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 109 * 1 1 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 110 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 111 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 113 * 1 1 1 1 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 114 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 115 * 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 117 * 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 118 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 119 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 120 * 1 1 1 1 1 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 123 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1
* CALM HOURS (=1) FOR DAY 124 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 125 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 126 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1
* CALM HOURS (=1) FOR DAY 127 * 1 1 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 128 * 1 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 129 * 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 131 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 132 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 133 * 0 0 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 134 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 135 * 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

* CALM HOURS (=1) FOR DAY 137 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 138 *	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 139 *	1	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	1	1	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 140 *	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 141 *	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 142 *	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 143 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 144 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 145 *	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1
* CALM HOURS (=1) FOR DAY 146 *	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 147 *	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 148 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 149 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 150 *	0	0	0	0	0	0	1	1	1	1	0	0	1	0	1	0	0	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 151 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 152 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
* CALM HOURS (=1) FOR DAY 153 *	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 154 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 155 *	1	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 156 *	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 157 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
* CALM HOURS (=1) FOR DAY 158 *	0	0	0	0	0	0	1	1	1	0	1	0	0	1	0	0	0	0	1	1	0	0	1	1	
* CALM HOURS (=1) FOR DAY 159 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 160 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 161 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1		
* CALM HOURS (=1) FOR DAY 162 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 163 *	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
* CALM HOURS (=1) FOR DAY 164 *	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 165 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
* CALM HOURS (=1) FOR DAY 166 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 167 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
* CALM HOURS (=1) FOR DAY 168 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	
* CALM HOURS (=1) FOR DAY 169 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1		
* CALM HOURS (=1) FOR DAY 170 *	1	0	0	1	1	1	0	1	1	0	1	1	1	0	0	0	0	0	1	1	0	0	0		
* CALM HOURS (=1) FOR DAY 171 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 172 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 173 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0	
* CALM HOURS (=1) FOR DAY 174 *	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0		
* CALM HOURS (=1) FOR DAY 175 *	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 176 *	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	1	0	1	
* CALM HOURS (=1) FOR DAY 177 *	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	
* CALM HOURS (=1) FOR DAY 178 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 179 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	
* CALM HOURS (=1) FOR DAY 180 *	0	1	1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 181 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 182 *	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	

1

MAX 50
1-HR
SGROUP#

*** WHITMOYER INC.1984 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y (METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y (METERS) OR DIRECTION (DEGREES)
1	0.00001	14	173	-100.0	-300.0	26	0.00001	12	173	-100.0	-350.0
2	0.00001	14	173	-100.0	-250.0	27	0.00001	14	177	200.0	-300.0
3	0.00001	13	173	-100.0	-250.0	28	0.00001	13	145	300.0	-100.0
4	0.00001	12	173	-100.0	-300.0	29	0.00001	13	177	150.0	-250.0
5	0.00001	13	173	-100.0	-300.0	30	0.00001	14	173	-100.0	-350.0
6	0.00001	11	173	0.0	-300.0	31	0.00001	12	145	350.0	-100.0
7	0.00001	11	173	-50.0	-300.0	32	0.00001	12	145	350.0	-100.0
8	0.00001	13	173	-150.0	-300.0	33	0.00001	13	117	250.0	-150.0
9	0.00001	13	177	200.0	-250.0	34	0.00001	11	173	-50.0	-150.0
10	0.00001	12	173	-100.0	-250.0	35	0.00001	13	177	200.0	-300.0
11	0.00001	11	173	0.0	-350.0	36	0.00001	13	173	-150.0	-350.0
12	0.00001	11	173	0.0	-250.0	37	0.00001	13	145	350.0	-100.0
13	0.00001	14	173	-150.0	-300.0	38	0.00001	13	145	350.0	-100.0
14	0.00001	11	163	200.0	-250.0	39	0.00001	11	164	300.0	-150.0
15	0.00001	12	177	200.0	-250.0	40	0.00001	14	173	-150.0	-350.0
16	0.00001	12	163	200.0	-250.0	41	0.00001	13	173	-100.0	-200.0
17	0.00001	12	145	300.0	-100.0	42	0.00001	12	177	150.0	-300.0
18	0.00001	12	177	150.0	-250.0	43	0.00001	14	173	-150.0	-250.0
19	0.00001	14	177	200.0	-250.0	44	0.00001	13	117	300.0	-100.0
20	0.00001	13	173	-150.0	-250.0	45	0.00001	14	177	250.0	-300.0
21	0.00001	13	117	300.0	-150.0	46	0.00001	12	173	-150.0	-250.0
22	0.00001	11	173	-50.0	-350.0	47	0.00001	14	173	-50.0	-350.0
23	0.00001	14	177	250.0	-250.0	48	0.00001	13	173	-100.0	-350.0
24	0.00001	12	173	-150.0	-300.0	49	0.00001	12	163	250.0	-350.0
25	0.00001	12	177	200.0	-300.0	50	0.00001	13	117	350.0	-100.0

RUN ENDED ON 09-04-90 AT 11:30:20

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 11:30:24

*** WHITMOYER INC.1984 3RD QTR-ARSENIC DEP UPPER-HGT SPOT-HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	1
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) =	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) =	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) =	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2;2=OTHER)	ISW(29) =	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) =	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) =	0
NUMBER OF INPUT SOURCES	NSOURC =	1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	0
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	301

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          SOURCE EMISSION RATE UNITS CONVERSION FACTOR                          TK =.10000E+01
          HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED                  ZR =  10.00  METERS
          LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                          IMET =   9
          DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION               DECAY =0.000000E+00
          SURFACE STATION NO.                                                  ISS = 14751
          YEAR OF SURFACE DATA                                                 ISY = 84
          UPPER AIR STATION NO.                                                IUS = 93734
          YEAR OF UPPER AIR DATA                                               IUY = 84
          ALLOCATED DATA STORAGE                                             LIMIT = 43500 WORDS
          REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                         MIMIT =  2294 WORDS

                     *** WHITMOYER INC.1984 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

                                  *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                                                  (IF=1)

      0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0

                          *** 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
            D         .00000E+00     .00000E+00     .00000E+00     .00000E+00     .00000E+00
            E         .20000E-01     .20000E-01     .20000E-01     .20000E-01     .20000E-01
```

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC.1984 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-400.0,	-100.0),	(-400.0,	-150.0),	(-400.0,	-200.0),	(-400.0,	-250.0),	(-400.0,	-300.0),
(-400.0,	-350.0),	(-400.0,	-400.0),	(-350.0,	-100.0),	(-350.0,	-150.0),	(-350.0,	-200.0),
(-350.0,	-250.0),	(-350.0,	-300.0),	(-350.0,	-350.0),	(-350.0,	-400.0),	(-300.0,	-100.0),
(-300.0,	-150.0),	(-300.0,	-200.0),	(-300.0,	-250.0),	(-300.0,	-300.0),	(-300.0,	-350.0),
(-300.0,	-400.0),	(-250.0,	-100.0),	(-250.0,	-150.0),	(-250.0,	-200.0),	(-250.0,	-250.0),
(-250.0,	-300.0),	(-250.0,	-350.0),	(-250.0,	-400.0),	(-200.0,	-100.0),	(-200.0,	-150.0),
(-200.0,	-200.0),	(-200.0,	-250.0),	(-200.0,	-300.0),	(-200.0,	-350.0),	(-200.0,	-400.0),
(-150.0,	-100.0),	(-150.0,	-150.0),	(-150.0,	-200.0),	(-150.0,	-250.0),	(-150.0,	-300.0),
(-150.0,	-350.0),	(-150.0,	-400.0),	(-100.0,	-100.0),	(-100.0,	-150.0),	(-100.0,	-200.0),
(-100.0,	-250.0),	(-100.0,	-300.0),	(-100.0,	-350.0),	(-100.0,	-400.0),	(350.0,	-100.0),
(350.0,	-150.0),	(350.0,	-200.0),	(350.0,	-250.0),	(350.0,	-300.0),	(350.0,	-350.0),
(350.0,	-400.0),	(400.0,	-100.0),	(400.0,	-150.0),	(400.0,	-200.0),	(400.0,	-250.0),
(400.0,	-300.0),	(400.0,	-350.0),	(400.0,	-400.0),	(450.0,	-100.0),	(450.0,	-150.0),
(450.0,	-200.0),	(450.0,	-250.0),	(450.0,	-300.0),	(450.0,	-350.0),	(450.0,	-400.0),
(500.0,	-100.0),	(500.0,	-150.0),	(500.0,	-200.0),	(500.0,	-250.0),	(500.0,	-300.0),
(500.0,	-350.0),	(500.0,	-400.0),	(550.0,	-100.0),	(550.0,	-150.0),	(550.0,	-200.0),
(550.0,	-250.0),	(550.0,	-300.0),	(550.0,	-350.0),	(550.0,	-400.0),	(600.0,	-100.0),
(600.0,	-150.0),	(600.0,	-200.0),	(600.0,	-250.0),	(600.0,	-300.0),	(600.0,	-350.0),
(600.0,	-400.0),	(650.0,	-100.0),	(650.0,	-150.0),	(650.0,	-200.0),	(650.0,	-250.0),
(650.0,	-300.0),	(650.0,	-350.0),	(650.0,	-400.0),	(100.0,	-350.0),	(100.0,	-400.0),
(100.0,	-450.0),	(100.0,	-500.0),	(100.0,	-550.0),	(100.0,	-600.0),	(100.0,	-650.0),
(150.0,	-350.0),	(150.0,	-400.0),	(150.0,	-450.0),	(150.0,	-500.0),	(150.0,	-550.0),
(150.0,	-600.0),	(150.0,	-650.0),	(200.0,	-350.0),	(200.0,	-400.0),	(200.0,	-450.0),
(200.0,	-500.0),	(200.0,	-550.0),	(200.0,	-600.0),	(200.0,	-650.0),	(250.0,	-350.0),
(250.0,	-400.0),	(250.0,	-450.0),	(250.0,	-500.0),	(250.0,	-550.0),	(250.0,	-600.0),
(250.0,	-650.0),	(300.0,	-350.0),	(300.0,	-400.0),	(300.0,	-450.0),	(300.0,	-500.0),
(300.0,	-550.0),	(300.0,	-600.0),	(300.0,	-650.0),	(350.0,	-350.0),	(350.0,	-400.0),
(350.0,	-450.0),	(350.0,	-500.0),	(350.0,	-550.0),	(350.0,	-600.0),	(350.0,	-650.0),
(400.0,	-350.0),	(400.0,	-400.0),	(400.0,	-450.0),	(400.0,	-500.0),	(400.0,	-550.0),
(400.0,	-600.0),	(400.0,	-650.0),	(600.0,	-350.0),	(600.0,	-400.0),	(600.0,	-450.0),
(600.0,	-500.0),	(600.0,	-550.0),	(600.0,	-600.0),	(600.0,	-650.0),	(650.0,	-350.0),
(650.0,	-400.0),	(650.0,	-450.0),	(650.0,	-500.0),	(650.0,	-550.0),	(650.0,	-600.0),
(650.0,	-650.0),	(700.0,	-350.0),	(700.0,	-400.0),	(700.0,	-450.0),	(700.0,	-500.0),
(700.0,	-550.0),	(700.0,	-600.0),	(700.0,	-650.0),	(750.0,	-350.0),	(750.0,	-400.0),
(750.0,	-450.0),	(750.0,	-500.0),	(750.0,	-550.0),	(750.0,	-600.0),	(750.0,	-650.0),
(800.0,	-350.0),	(800.0,	-400.0),	(800.0,	-450.0),	(800.0,	-500.0),	(800.0,	-550.0),
(800.0,	-600.0),	(800.0,	-650.0),	(850.0,	-350.0),	(850.0,	-400.0),	(850.0,	-450.0),
(850.0,	-500.0),	(850.0,	-550.0),	(850.0,	-600.0),	(850.0,	-650.0),	(900.0,	-350.0),
(900.0,	-400.0),	(900.0,	-450.0),	(900.0,	-500.0),	(900.0,	-550.0),	(900.0,	-600.0),
(900.0,	-650.0),	(200.0,	-100.0),	(200.0,	-150.0),	(200.0,	-200.0),	(200.0,	-250.0),
(200.0,	-300.0),	(200.0,	-350.0),	(200.0,	-400.0),	(250.0,	-100.0),	(250.0,	-150.0),
(250.0,	-200.0),	(250.0,	-250.0),	(250.0,	-300.0),	(250.0,	-350.0),	(250.0,	-400.0),
(300.0,	-100.0),	(300.0,	-150.0),	(300.0,	-200.0),	(300.0,	-250.0),	(300.0,	-300.0),
(300.0,	-350.0),	(300.0,	-400.0),	(350.0,	-100.0),	(350.0,	-150.0		
(350.0,	-250.0),	(350.0,	-300.0),	(350.0,	-350.0),	(350.0,	-400.0		
(400.0,	-150.0),	(400.0,	-200.0),	(400.0,	-250.0),	(400.0,	-300.0),	------,	------,

(	400.0,	-400.0),	(	-50.0,	-100.0),	(	-50.0,	-150.0),	(	-50.0,	-200.0),	(	-50.0,	-250.0),
(	-50.0,	-300.0),	(	-50.0,	-350.0),	(	-50.0,	-400.0),	(	0.0,	-100.0),	(	0.0,	-150.0),
(	0.0,	-200.0),	(	0.0,	-250.0),	(	0.0,	-300.0),	(	0.0,	-350.0),	(	0.0,	-400.0),
(	50.0,	-100.0),	(	50.0,	-150.0),	(	50.0,	-200.0),	(	50.0,	-250.0),	(	50.0,	-300.0),
(	50.0,	-350.0),	(	50.0,	-400.0),	(	100.0,	-100.0),	(	100.0,	-150.0),	(	100.0,	-200.0),
(	100.0,	-250.0),	(	100.0,	-300.0),	(	100.0,	-350.0),	(	100.0,	-400.0),	(	150.0,	-100.0),
(	150.0,	-150.0),	(	150.0,	-200.0),	(	150.0,	-250.0),	(	150.0,	-300.0),	(	150.0,	-350.0),
(	150.0,	-400.0),	(	950.0,	-350.0),	(	950.0,	-400.0),	(	950.0,	-450.0),	(	950.0,	-500.0),
(	950.0,	-550.0),	(	950.0,	-600.0),	(	950.0,	-650.0),	(	1000.0,	-350.0),	(	1000.0,	-400.0),
(	1000.0,	-450.0),	(	1000.0,	-500.0),	(	1000.0,	-550.0),	(	1000.0,	-600.0),	(	1000.0,	-650.0),
(	1050.0,	-350.0),	(	1050.0,	-400.0),	(	1050.0,	-450.0),	(	1050.0,	-500.0),	(	1050.0,	-550.0),
(	1050.0,	-600.0),	(	1050.0,	-650.0),	(	1100.0,	-350.0),	(	1100.0,	-400.0),	(	1100.0,	-450.0),
(	1100.0,	-500.0),	(	1100.0,	-550.0),	(	1100.0,	-600.0),	(	1100.0,	-650.0),	(	1150.0,	-350.0),
(	1150.0,	-400.0),	(	1150.0,	-450.0),	(	1150.0,	-500.0),	(	1150.0,	-550.0),	(	1150.0,	-600.0),
(| 1150.0, | -650.0),	(											

*** WHITMOYER INC.1984 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	146.30429
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0	-300.0	146.30429
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0		
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0		

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-550.0	149.35229
100.0	-600.0	149.35229	100.0	-650.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC.1984 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0		
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0		
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0		

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** SOURCE DATA ***

SOURCE	T Y P E	N A M E	NUMBER PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); TYPE=1	EXIT VEL. TYPE=0 (M/SEC); TYPE=2,3	DIAMETER TYPE=0	TYPE=0	TYPE=0	N TYPE=0
									VERT.DIM	HORZ.DIM				

NUMBER	E	E	CATS.	*PER METER**	2 (METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1	0	0	1	0.2258E+02	0.0	0.0	146.3	65.00	344.30	3.35	1.20	0.00	0.00	0.00

1

*** WHITMOYER INC.1984 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000,

SETTLING VELOCITY(METERS/SEC) :
0.0004,

SURFACE REFLECTION COEFFICIENT :
0.92000,

* CALM HOURS (=1) FOR DAY 183 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 184 *	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 185 *	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 186 *	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 187 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 188 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 189 *	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 190 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 191 *	1	1	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	1
* CALM HOURS (=1) FOR DAY 192 *	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1
* CALM HOURS (=1) FOR DAY 193 *	0	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 194 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 195 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 196 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 197 *	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 198 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 199 *	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 200 *	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 201 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 202 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 203 *	0	0	1	0	1	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 204 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 205 *	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 207 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 208 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 210 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 211 *	1	1	1	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 212 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 213 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 214 *	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 215 *	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 216 *	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1		
* CALM HOURS (=1) FOR DAY 217 *	0	1	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
* CALM HOURS (=1) FOR DAY 218 *	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1		

```
* CALM HOURS (=1) FOR DAY 219 * 1 1 1 1 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 220 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 0
* CALM HOURS (=1) FOR DAY 221 * 0 1 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 222 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 223 * 1 1 1 1 1 1 1 0 0 0 0 0 1 0 0 0 0 1 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 224 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 1 0 0 1 1 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 225 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 226 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 227 * 1 1 1 1 1 1 1 1 1 0 0 0 0 1 1 1 0 0 0 0 1 0 1 1
* CALM HOURS (=1) FOR DAY 228 * 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 229 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 230 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 231 * 0 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 232 * 1 1 1 0 0 1 1 0 0 1 1 0 0 0 0 1 0 0 1 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 233 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1
* CALM HOURS (=1) FOR DAY 234 * 1 1 1 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 235 * 1 1 1 1 1 1 0 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 236 * 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 237 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 238 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 239 * 1 1 1 1 1 1 0 0 0 1 1 1 1 1 0 1 1 1 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 240 * 1 1 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 241 * 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 242 * 1 1 1 1 1 1 1 1 0 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 243 * 0 1 1 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 1 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 245 * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 246 * 1 1 1 1 1 1 0 0 0 1 1 0 0 0 0 1 0 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 247 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 249 * 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1
* CALM HOURS (=1) FOR DAY 250 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 251 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 252 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 253 * 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 254 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1 1
* CALM HOURS (=1) FOR DAY 255 * 1 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 256 * 0 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 257 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 258 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 0 1 1
* CALM HOURS (=1) FOR DAY 259 * 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 260 * 0 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 261 * 1 1 1 0 1 0 0 0 0 0 0 1 1 0 1 1 1 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 262 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 263 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 264 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 265 * 0 1 0 0 0 1 1 1 0 0 0 0 0 0 0 1 1 0 0 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 266 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 267 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 268 * 1 1 1 1 1 1 1 1 1 1 1 1 0 1 1 1 0 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 269 * 1 1 1 1 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 270 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 271 * 1 1 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0
* CALM HOURS (=1) FOR DAY 272 * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1
* CALM HOURS (=1) FOR DAY 273 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 274 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
```

1

nmx 50

*** WHITMOYER INC.1984 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00001	13	207	100.0	-250.0	26	0.00001	12	229	250.0	-200.0
2	0.00001	13	221	200.0	-250.0	27	0.00001	11	213	250.0	-350.0
3	0.00001	14	195	200.0	-250.0	28	0.00001	14	201	300.0	-200.0
4	0.00001	13	207	150.0	-300.0	29	0.00001	12	231	250.0	-200.0
5	0.00001	13	207	150.0	-250.0	30	0.00001	13	221	200.0	-300.0
6	0.00001	12	229	200.0	-250.0	31	0.00001	11	185	300.0	-200.0
7	0.00001	12	229	200.0	-200.0	32	0.00001	11	221	300.0	-200.0
8	0.00001	13	184	300.0	-100.0	33	0.00001	14	201	250.0	-200.0
9	0.00001	11	190	200.0	-250.0	34	0.00001	14	184	350.0	-100.0
10	0.00001	12	229	250.0	-250.0	35	0.00001	14	184	350.0	-100.0
11	0.00001	11	213	250.0	-200.0	36	0.00001	12	231	300.0	-200.0
12	0.00001	11	190	200.0	-200.0	37	0.00001	13	184	350.0	-100.0
13	0.00001	11	190	250.0	-250.0	38	0.00001	13	184	350.0	-100.0
14	0.00001	14	201	250.0	-150.0	39	0.00001	14	195	250.0	-250.0
15	0.00001	13	207	100.0	-300.0	40	0.00001	11	185	250.0	-200.0
16	0.00001	14	184	300.0	-100.0	41	0.00001	12	221	250.0	-150.0
17	0.00001	14	201	300.0	-150.0	42	0.00001	11	190	250.0	-200.0
18	0.00001	13	221	150.0	-250.0	43	0.00001	12	196	300.0	-100.0
19	0.00001	12	196	300.0	-150.0	44	0.00001	13	221	150.0	-200.0
20	0.00001	14	191	300.0	-150.0	45	0.00001	11	213	200.0	-200.0
21	0.00001	12	184	300.0	-150.0	46	0.00001	12	221	300.0	-200.0
22	0.00001	11	185	250.0	-150.0	47	0.00001	14	195	200.0	-200.0
23	0.00001	11	185	300.0	-150.0	48	0.00001	13	196	300.0	-100.0
24	0.00001	12	221	300.0	-150.0	49	0.00001	12	184	300.0	-100.0
25	0.00001	11	221	250.0	-200.0	50	0.00001	13	184	250.0	-100.0

RUN ENDED ON 09-04-90 AT 11:33:55

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 11:33:59

*** WHITMOYER INC.1985 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 0
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 0
NUMBER OF DISCRETE RECEPTORS	NXNYPT = 301

SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK =.10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET = 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY =0.000000E+00
SURFACE STATION NO.	ISS = 14751
YEAR OF SURFACE DATA	ISY = 85
UPPER AIR STATION NO.	IUS = 93734
YEAR OF UPPER AIR DATA	IUY = 85
ALLOCATED DATA STORAGE	LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT = 2294 WORDS

*** WHITMOYER INC.1985 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0
```

*** 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+0	
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-0	

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC.1985 2ND QTR-ARSENIC DEP UPPER-NOT SPOT-HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-400.0,	-100.0),	(-400.0,	-150.0),	(-400.0,	-200.0),	(-400.0,	-250.0),	(-400.0,	-300.0),
(-400.0,	-350.0),	(-400.0,	-400.0),	(-350.0,	-100.0),	(-350.0,	-150.0),	(-350.0,	-200.0),
(-350.0,	-250.0),	(-350.0,	-300.0),	(-350.0,	-350.0),	(-350.0,	-400.0),	(-300.0,	-100.0),
(-300.0,	-150.0),	(-300.0,	-200.0),	(-300.0,	-250.0),	(-300.0,	-300.0),	(-300.0,	-350.0),
(-300.0,	-400.0),	(-250.0,	-100.0),	(-250.0,	-150.0),	(-250.0,	-200.0),	(-250.0,	-250.0),
(-250.0,	-300.0),	(-250.0,	-350.0),	(-250.0,	-400.0),	(-200.0,	-100.0),	(-200.0,	-150.0),
(-200.0,	-200.0),	(-200.0,	-250.0),	(-200.0,	-300.0),	(-200.0,	-350.0),	(-200.0,	-400.0),
(-150.0,	-100.0),	(-150.0,	-150.0),	(-150.0,	-200.0),	(-150.0,	-250.0),	(-150.0,	-300.0),
(-150.0,	-350.0),	(-150.0,	-400.0),	(-100.0,	-100.0),	(-100.0,	-150.0),	(-100.0,	-200.0),
(-100.0,	-250.0),	(-100.0,	-300.0),	(-100.0,	-350.0),	(-100.0,	-400.0),	(350.0,	-100.0),
(350.0,	-150.0),	(350.0,	-200.0),	(350.0,	-250.0),	(350.0,	-300.0),	(350.0,	-350.0),
(350.0,	-400.0),	(400.0,	-100.0),	(400.0,	-150.0),	(400.0,	-200.0),	(400.0,	-250.0),
(400.0,	-300.0),	(400.0,	-350.0),	(400.0,	-400.0),	(450.0,	-100.0),	(450.0,	-150.0),
(450.0,	-200.0),	(450.0,	-250.0),	(450.0,	-300.0),	(450.0,	-350.0),	(450.0,	-400.0),
(500.0,	-100.0),	(500.0,	-150.0),	(500.0,	-200.0),	(500.0,	-250.0),	(500.0,	-300.0),
(500.0,	-350.0),	(500.0,	-400.0),	(550.0,	-100.0),	(550.0,	-150.0),	(550.0,	-200.0),
(550.0,	-250.0),	(550.0,	-300.0),	(550.0,	-350.0),	(550.0,	-400.0),	(600.0,	-100.0),
(600.0,	-150.0),	(600.0,	-200.0),	(600.0,	-250.0),	(600.0,	-300.0),	(600.0,	-350.0),
(600.0,	-400.0),	(650.0,	-100.0),	(650.0,	-150.0),	(650.0,	-200.0),	(650.0,	-250.0),
(650.0,	-300.0),	(650.0,	-350.0),	(650.0,	-400.0),	(100.0,	-350.0),	(100.0,	-400.0),
(100.0,	-450.0),	(100.0,	-500.0),	(100.0,	-550.0),	(100.0,	-600.0),	(100.0,	-650.0),
(150.0,	-350.0),	(150.0,	-400.0),	(150.0,	-450.0),	(150.0,	-500.0),	(150.0,	-550.0),
(150.0,	-600.0),	(150.0,	-650.0),	(200.0,	-350.0),	(200.0,	-400.0),	(200.0,	-450.0),
(200.0,	-500.0),	(200.0,	-550.0),	(200.0,	-600.0),	(200.0,	-650.0),	(250.0,	-350.0),
(250.0,	-400.0),	(250.0,	-450.0),	(250.0,	-500.0),	(250.0,	-550.0),	(250.0,	-600.0),
(250.0,	-650.0),	(300.0,	-350.0),	(300.0,	-400.0),	(300.0,	-450.0),	(300.0,	-500.0),
(300.0,	-550.0),	(300.0,	-600.0),	(300.0,	-650.0),	(350.0,	-350.0),	(350.0,	-400.0),
(350.0,	-450.0),	(350.0,	-500.0),	(350.0,	-550.0),	(350.0,	-600.0),	(350.0,	-650.0),
(400.0,	-350.0),	(400.0,	-400.0),	(400.0,	-450.0),	(400.0,	-500.0),	(400.0,	-550.0),
(400.0,	-600.0),	(400.0,	-650.0),	(600.0,	-350.0),	(600.0,	-400.0),	(600.0,	-450.0),
(600.0,	-500.0),	(600.0,	-550.0),	(600.0,	-600.0),	(600.0,	-650.0),	(650.0,	-350.0),
(650.0,	-400.0),	(650.0,	-450.0),	(650.0,	-500.0),	(650.0,	-550.0),	(650.0,	-600.0),
(650.0,	-650.0),	(700.0,	-350.0),	(700.0,	-400.0),	(700.0,	-450.0),	(700.0,	-500.0),
(700.0,	-550.0),	(700.0,	-600.0),	(700.0,	-650.0),	(750.0,	-350.0),	(750.0,	-400.0),
(750.0,	-450.0),	(750.0,	-500.0),	(750.0,	-550.0),	(750.0,	-600.0),	(750.0,	-650.0),
(800.0,	-350.0),	(800.0,	-400.0),	(800.0,	-450.0),	(800.0,	-500.0),	(800.0,	-550.0),
(800.0,	-600.0),	(800.0,	-650.0),	(850.0,	-350.0),	(850.0,	-400.0),	(850.0,	-450.0),
(850.0,	-500.0),	(850.0,	-550.0),	(850.0,	-600.0),	(850.0,	-650.0),	(900.0,	-350.0),
(900.0,	-400.0),	(900.0,	-450.0),	(900.0,	-500.0),	(900.0,	-550.0),	(900.0,	-600.0),
(900.0,	-650.0),	(200.0,	-100.0),	(200.0,	-150.0),	(200.0,	-200.0),	(200.0,	-250.0),
(200.0,	-300.0),	(200.0,	-350.0),	(200.0,	-400.0),	(250.0,	-100.0),	(250.0,	-150.0),
(250.0,	-200.0),	(250.0,	-250.0),	(250.0,	-300.0),	(250.0,	-350.0),	(250.0,	-400.0),
(300.0,	-100.0),	(300.0,	-150.0),	(300.0,	-200.0),	(300.0,	-250.0),	(300.0,	-300.0),
(300.0,	-350.0),	(300.0,	-400.0),	(350.0,	-100.0),	(350.0,	-150.0),		
(350.0,	-250.0),	(350.0,	-300.0),	(350.0,	-350.0),	(350.0,	-400.0),		
(400.0,	-150.0),	(400.0,	-200.0),	(400.0,	-250.0),	(400.0,	-300.0),		

(400.0,	-400.0),	(-50.0,	-100.0),	(-50.0,	-150.0),	(-50.0,	-200.0),	(-50.0,	-250.0),
(-50.0,	-300.0),	(-50.0,	-350.0),	(-50.0,	-400.0),	(0.0,	-100.0),	(0.0,	-150.0),
(0.0,	-200.0),	(0.0,	-250.0),	(0.0,	-300.0),	(0.0,	-350.0),	(0.0,	-400.0),
(50.0,	-100.0),	(50.0,	-150.0),	(50.0,	-200.0),	(50.0,	-250.0),	(50.0,	-300.0),
(50.0,	-350.0),	(50.0,	-400.0),	(100.0,	-100.0),	(100.0,	-150.0),	(100.0,	-200.0),
(100.0,	-250.0),	(100.0,	-300.0),	(100.0,	-350.0),	(100.0,	-400.0),	(150.0,	-100.0),
(150.0,	-150.0),	(150.0,	-200.0),	(150.0,	-250.0),	(150.0,	-300.0),	(150.0,	-350.0),
(150.0,	-400.0),	(950.0,	-350.0),	(950.0,	-400.0),	(950.0,	-450.0),	(950.0,	-500.0),
(950.0,	-550.0),	(950.0,	-600.0),	(950.0,	-650.0),	(1000.0,	-350.0),	(1000.0,	-400.0),
(1000.0,	-450.0),	(1000.0,	-500.0),	(1000.0,	-550.0),	(1000.0,	-600.0),	(1000.0,	-650.0),
(1050.0,	-350.0),	(1050.0,	-400.0),	(1050.0,	-450.0),	(1050.0,	-500.0),	(1050.0,	-550.0),
(1050.0,	-600.0),	(1050.0,	-650.0),	(1100.0,	-350.0),	(1100.0,	-400.0),	(1100.0,	-450.0),
(1100.0,	-500.0),	(1100.0,	-550.0),	(1100.0,	-600.0),	(1100.0,	-650.0),	(1150.0,	-350.0),
(1150.0,	-400.0),	(1150.0,	-450.0),	(1150.0,	-500.0),	(1150.0,	-550.0),	(1150.0,	-600.0),
(1150.0,	-650.0),	(							

*** WHITMOYER INC.1985 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	152.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	146.30429
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0		9
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0		9
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0	-----	9

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

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*** WHITMOYER INC.1985 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0	-300.0	146.30429
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0		
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0		

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

*** WHITMOYER.INC.1985 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC.1985 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE DATA ***

SOURCE #	T Y P E	NUMBER PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAME TYPE=0	..... TYPE=0	..... TYPE=0	LOG. -IOTH TYPE=0

NUMBER	E	E CATS.	*PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1	0	0	0.22680E+02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.30	0.00

*** WHITMOYER INC.1985 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000.

SETTLING VELOCITY(METERS/SEC) :
0.0004,

SURFACE REFLECTION COEFFICIENT :
0.92000,

* CALM HOURS (=1) FOR DAY 91 *	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 92 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 93 *	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 94 *	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
* CALM HOURS (=1) FOR DAY 95 *	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 98 *	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 99 *	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 101 *	1	1	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 102 *	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	
* CALM HOURS (=1) FOR DAY 103 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 105 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 106 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	
* CALM HOURS (=1) FOR DAY 107 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 108 *	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 109 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
* CALM HOURS (=1) FOR DAY 110 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	
* CALM HOURS (=1) FOR DAY 111 *	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 112 *	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	1	0	1	1	1	1	
* CALM HOURS (=1) FOR DAY 113 *	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 116 *	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 117 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 118 *	1	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 119 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 120 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 121 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 125 *	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 126 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	0
* CALM HOURS (=1) FOR DAY 128 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 129 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 131 *	0	0	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
* CALM HOURS (=1) FOR DAY 132 *	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
* CALM HOURS (=1) FOR DAY 133 *	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0		
* CALM HOURS (=1) FOR DAY 134 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	
* CALM HOURS (=1) FOR DAY 136 *	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	1	1	

```
* CALM HOURS (=1) FOR DAY 137 * 1 1 1 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 139 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 140 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 141 * 1 0 1 1 0 1 1 0 0 0 1 0 0 0 0 0 1 1 1 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 142 * 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 143 * 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 144 * 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 1 1 1
* CALM HOURS (=1) FOR DAY 145 * 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 146 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 147 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 148 * 1 1 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 149 * 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 1
* CALM HOURS (=1) FOR DAY 150 * 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 152 * 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 153 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 154 * 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 155 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 156 * 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 157 * 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 [
* CALM HOURS (=1) FOR DAY 158 * 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 159 * 0 1 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 1 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 160 * 0 0 0 1 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 161 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
* CALM HOURS (=1) FOR DAY 162 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 163 * 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 166 * 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 167 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 1 0 0
* CALM HOURS (=1) FOR DAY 168 * 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 169 * 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 170 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0
* CALM HOURS (=1) FOR DAY 171 * 0 0 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 172 * 1 1 1 1 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 173 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 174 * 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 175 * 0 0 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 176 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
* CALM HOURS (=1) FOR DAY 177 * 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 178 * 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 179 * 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0
* CALM HOURS (=1) FOR DAY 180 * 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 1 1 0
* CALM HOURS (=1) FOR DAY 181 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1
1
```

MAX 50
1-HR
SCROUP# 1

*** WHITMOYER INC.1985 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

X OR	Y(METERS) OR	X OR	Y(METERS) OR

RANK	DEP.	HOUR	DAY	RANGE (METERS)	DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	RANGE (METERS)	DIRECTION (DEGREES)
1	0.00001	11	121	50.0	-300.0	26	0.00001	12	110	150.0	-300.0
2	0.00001	11	121	50.0	-250.0	27	0.00001	13	174	-250.0	-100.0
3	0.00001	12	110	200.0	-250.0	28	0.00001	11	172	150.0	-350.0
4	0.00001	13	174	-300.0	-100.0	29	0.00001	11	172	150.0	-350.0
5	0.00001	14	159	0.0	-300.0	30	0.00001	11	121	50.0	-400.0
6	0.00001	12	110	150.0	-250.0	31	0.00001	11	121	100.0	-350.0
7	0.00001	11	172	150.0	-300.0	32	0.00001	11	121	0.0	-350.0
8	0.00001	14	159	0.0	-350.0	33	0.00001	11	121	100.0	-350.0
9	0.00001	11	121	50.0	-350.0	34	0.00001	11	134	350.0	-200.0
10	0.00001	12	129	-300.0	-100.0	35	0.00001	11	134	350.0	-200.0
11	0.00001	11	172	100.0	-250.0	36	0.00001	11	134	250.0	-150.0
12	0.00001	12	110	200.0	-300.0	37	0.00001	12	129	-400.0	-100.0
13	0.00001	14	159	50.0	-300.0	38	0.00001	11	121	0.0	-250.0
14	0.00001	12	110	150.0	-200.0	39	0.00001	11	134	300.0	-200.0
15	0.00001	13	174	-350.0	-100.0	40	0.00001	11	172	200.0	-350.0
16	0.00001	12	120	-300.0	-100.0	41	0.00001	11	172	200.0	-350.0
17	0.00001	11	172	100.0	-300.0	42	0.00001	13	174	-400.0	-100.0
18	0.00001	11	134	300.0	-150.0	43	0.00001	12	120	-400.0	-100.0
19	0.00001	12	129	-350.0	-100.0	44	0.00001	14	159	0.0	-400.0
20	0.00001	11	172	150.0	-250.0	45	0.00001	14	159	50.0	-400.0
21	0.00001	11	121	0.0	-300.0	46	0.00001	12	110	200.0	-350.0
22	0.00001	12	120	-350.0	-100.0	47	0.00001	12	110	200.0	-350.0
23	0.00001	11	121	100.0	-300.0	48	0.00001	11	134	350.0	-150.0
24	0.00001	14	159	50.0	-350.0	49	0.00001	11	134	350.0	-150.0
25	0.00001	14	159	0.0	-250.0	50	0.00001	12	110	250.0	-300.0

RUN ENDED ON 09-04-90 AT 11:37:42

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6291 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 11:37:46

*** WRITMG:ER INC.1985 3RD GTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) : 2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) : 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) : 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) : 1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) : 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) : 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) : 1
2-HOUR (YES=1,NO=0)	ISW(8) : 0
3-HOUR (YES=1,NO=0)	ISW(9) : 0
4-HOUR (YES=1,NO=0)	ISW(10) : 0
6-HOUR (YES=1,NO=0)	ISW(11) : 0
8-HOUR (YES=1,NO=0)	ISW(12) : 0
12-HOUR (YES=1,NO=0)	ISW(13) : 0
24-HOUR (YES=1,NO=0)	ISW(14) : 0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) : 0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) : 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) : 0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) : 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) : 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) : 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) : 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) : 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) : 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) : 1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) : 2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) : 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) : 1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) : 1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) : 2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) : 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) : 0
NUMBER OF INPUT SOURCES	NSOURC : 1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP : 0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD : 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS : 0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS : 0
NUMBER OF DISCRETE RECEPTORS	NXNYPT : 301

```
SOURCE EMISSION RATE UNITS CONVERSION FACTOR                    TK =.10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED            ZR =  10.00  METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                      IMET =   9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION            DECAY =0.000000E+00
SURFACE STATION NO.                                             ISS = 14751
YEAR OF SURFACE DATA                                            ISY = 85
UPPER AIR STATION NO.                                           IUS = 93734
YEAR OF UPPER AIR DATA                                          IUY = 85
ALLOCATED DATA STORAGE                                          LIMIT = 43200 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                      MIMIT =  2294 WORDS
```

*** WHITMOYER INC.1985 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0
```

*** 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	
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	

P .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC.1985 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(	-400.0,	-100.0),	(	-400.0,	-150.0),	(	-400.0,	-200.0),	(	-400.0,	-250.0),	(	-400.0,	-300.0),		
(	-400.0,	-350.0),	(	-400.0,	-400.0),	(	-350.0,	-100.0),	(	-350.0,	-150.0),	(	-350.0,	-200.0),		
(	-350.0,	-250.0),	(	-350.0,	-300.0),	(	-350.0,	-350.0),	(	-350.0,	-400.0),	(	-300.0,	-100.0),		
(	-300.0,	-150.0),	(	-300.0,	-200.0),	(	-300.0,	-250.0),	(	-300.0,	-300.0),	(	-300.0,	-350.0),		
(	-300.0,	-400.0),	(	-250.0,	-100.0),	(	-250.0,	-150.0),	(	-250.0,	-200.0),	(	-250.0,	-250.0),		
(	-250.0,	-300.0),	(	-250.0,	-350.0),	(	-250.0,	-400.0),	(	-200.0,	-100.0),	(	-200.0,	-150.0),		
(	-200.0,	-200.0),	(	-200.0,	-250.0),	(	-200.0,	-300.0),	(	-200.0,	-350.0),	(	-200.0,	-400.0),		
(	-150.0,	-100.0),	(	-150.0,	-150.0),	(	-150.0,	-200.0),	(	-150.0,	-250.0),	(	-150.0,	-300.0),		
(	-150.0,	-350.0),	(	-150.0,	-400.0),	(	-100.0,	-100.0),	(	-100.0,	-150.0),	(	-100.0,	-200.0),		
(	-100.0,	-250.0),	(	-100.0,	-300.0),	(	-100.0,	-350.0),	(	-100.0,	-400.0),	(	350.0,	-100.0),		
(	350.0,	-150.0),	(	350.0,	-200.0),	(	350.0,	-250.0),	(	350.0,	-300.0),	(	350.0,	-350.0),		
(	350.0,	-400.0),	(	400.0,	-100.0),	(	400.0,	-150.0),	(	400.0,	-200.0),	(	400.0,	-250.0),		
(	400.0,	-300.0),	(	400.0,	-350.0),	(	400.0,	-400.0),	(	450.0,	-100.0),	(	450.0,	-150.0),		
(	450.0,	-200.0),	(	450.0,	-250.0),	(	450.0,	-300.0),	(	450.0,	-350.0),	(	450.0,	-400.0),		
(	500.0,	-100.0),	(	500.0,	-150.0),	(	500.0,	-200.0),	(	500.0,	-250.0),	(	500.0,	-300.0),		
(	500.0,	-350.0),	(	500.0,	-400.0),	(	550.0,	-100.0),	(	550.0,	-150.0),	(	550.0,	-200.0),		
(	550.0,	-250.0),	(	550.0,	-300.0),	(	550.0,	-350.0),	(	550.0,	-400.0),	(	600.0,	-100.0),		
(	600.0,	-150.0),	(	600.0,	-200.0),	(	600.0,	-250.0),	(	600.0,	-300.0),	(	600.0,	-350.0),		
(	600.0,	-400.0),	(	650.0,	-100.0),	(	650.0,	-150.0),	(	650.0,	-200.0),	(	650.0,	-250.0),		
(	650.0,	-300.0),	(	650.0,	-350.0),	(	650.0,	-400.0),	(	100.0,	-350.0),	(	100.0,	-400.0),		
(	100.0,	-450.0),	(	100.0,	-500.0),	(	100.0,	-550.0),	(	100.0,	-600.0),	(	100.0,	-650.0),		
(	150.0,	-350.0),	(	150.0,	-400.0),	(	150.0,	-450.0),	(	150.0,	-500.0),	(	150.0,	-550.0),		
(	150.0,	-600.0),	(	150.0,	-650.0),	(	200.0,	-350.0),	(	200.0,	-400.0),	(	200.0,	-450.0),		
(	200.0,	-500.0),	(	200.0,	-550.0),	(	200.0,	-600.0),	(	200.0,	-650.0),	(	250.0,	-350.0),		
(	250.0,	-400.0),	(	250.0,	-450.0),	(	250.0,	-500.0),	(	250.0,	-550.0),	(	250.0,	-600.0),		
(	250.0,	-650.0),	(	300.0,	-350.0),	(	300.0,	-400.0),	(	300.0,	-450.0),	(	300.0,	-500.0),		
(	300.0,	-550.0),	(	300.0,	-600.0),	(	300.0,	-650.0),	(	350.0,	-350.0),	(	350.0,	-400.0),		
(	350.0,	-450.0),	(	350.0,	-500.0),	(	350.0,	-550.0),	(	350.0,	-600.0),	(	350.0,	-650.0),		
(	400.0,	-350.0),	(	400.0,	-400.0),	(	400.0,	-450.0),	(	400.0,	-500.0),	(	400.0,	-550.0),		
(	400.0,	-600.0),	(	400.0,	-650.0),	(	600.0,	-350.0),	(	600.0,	-400.0),	(	600.0,	-450.0),		
(	600.0,	-500.0),	(	600.0,	-550.0),	(	600.0,	-600.0),	(	600.0,	-650.0),	(	650.0,	-350.0),		
(	650.0,	-400.0),	(	650.0,	-450.0),	(	650.0,	-500.0),	(	650.0,	-550.0),	(	650.0,	-600.0),		
(	650.0,	-650.0),	(	700.0,	-350.0),	(	700.0,	-400.0),	(	700.0,	-450.0),	(	700.0,	-500.0),		
(	700.0,	-550.0),	(	700.0,	-600.0),	(	700.0,	-650.0),	(	750.0,	-350.0),	(	750.0,	-400.0),		
(	750.0,	-450.0),	(	750.0,	-500.0),	(	750.0,	-550.0),	(	750.0,	-600.0),	(	750.0,	-650.0),		
(	800.0,	-350.0),	(	800.0,	-400.0),	(	800.0,	-450.0),	(	800.0,	-500.0),	(	800.0,	-550.0),		
(	800.0,	-600.0),	(	800.0,	-650.0),	(	850.0,	-350.0),	(	850.0,	-400.0),	(	850.0,	-450.0),		
(	850.0,	-500.0),	(	850.0,	-550.0),	(	850.0,	-600.0),	(	850.0,	-650.0),	(	900.0,	-350.0),		
(	900.0,	-400.0),	(	900.0,	-450.0),	(	900.0,	-500.0),	(	900.0,	-550.0),	(	900.0,	-600.0),		
(	900.0,	-650.0),	(	200.0,	-100.0),	(	200.0,	-150.0),	(	200.0,	-200.0),	(	200.0,	-250.0),		
(	200.0,	-300.0),	(	200.0,	-350.0),	(	200.0,	-400.0),	(	250.0,	-100.0),	(	250.0,	-150.0),		
(	250.0,	-200.0),	(	250.0,	-250.0),	(	250.0,	-300.0),	(	250.0,	-350.0),	(	250.0,	-400.0),		
(	300.0,	-100.0),	(	300.0,	-150.0),	(	300.0,	-200.0),	(	300.0,	-250.0),	(	300.0,	-300.0),		
(	300.0,	-350.0),	(	300.0,	-400.0),	(	350.0,	-100.0),	(	350.0,	-150.0),					
(	350.0,	-250.0),	(	350.0,	-300.0),	(	350.0,	-350.0),	(	350.0,	-400.0),					
(	400.0,	-150.0),	(	400.0,	-200.0),	(	400.0,	-250.0),	(	400.0,	-300.0),					

(400.0,	-400.0),	(-50.0,	-100.0),	(-50.0,	-150.0),	(-50.0,	-200.0),	(-50.0,	-250.0...
(-50.0,	-300.0),	(-50.0,	-350.0),	(-50.0,	-400.0),	(0.0,	-100.0),	(0.0,	-150.0...
(0.0,	-200.0),	(0.0,	-250.0),	(0.0,	-300.0),	(0.0,	-350.0),	(0.0,	-400.0...
(50.0,	-100.0),	(50.0,	-150.0),	(50.0,	-200.0),	(50.0,	-250.0),	(50.0,	-300.0...
(50.0,	-350.0),	(50.0,	-400.0),	(100.0,	-100.0),	(100.0,	-150.0),	(100.0,	-200.0...
(100.0,	-250.0),	(100.0,	-300.0),	(100.0,	-350.0),	(100.0,	-400.0),	(150.0,	-100.0...
(150.0,	-150.0),	(150.0,	-200.0),	(150.0,	-250.0),	(150.0,	-300.0),	(150.0,	-350.0...
(150.0,	-400.0),	(950.0,	-350.0),	(950.0,	-400.0),	(950.0,	-450.0),	(950.0,	-500.0...
(950.0,	-550.0),	(950.0,	-600.0),	(950.0,	-650.0),	(1000.0,	-350.0),	(1000.0,	-400.0...
(1000.0,	-450.0),	(1000.0,	-500.0),	(1000.0,	-550.0),	(1000.0,	-600.0),	(1000.0,	-650.0...
(1050.0,	-350.0),	(1050.0,	-400.0),	(1050.0,	-450.0),	(1050.0,	-500.0),	(1050.0,	-550.0...
(1050.0,	-600.0),	(1050.0,	-650.0),	(1100.0,	-350.0),	(1100.0,	-400.0),	(1100.0,	-450.0...
(1100.0,	-500.0),	(1100.0,	-550.0),	(1100.0,	-600.0),	(1100.0,	-650.0),	(1150.0,	-350.0...
(1150.0,	-400.0),	(1150.0,	-450.0),	(1150.0,	-500.0),	(1150.0,	-550.0),	(1150.0,	-600.0...
(1150.0,	-650.0),	(							

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*** WHITMOYER INC.1985 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0		
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0		
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0		
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0	-250.0	146.30429

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC.1985 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	155.44830
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	155.44830
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	[illegible]	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0		
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0		
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0	-250.0	[illegible]

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

*** WHITMOYER INC.1985 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC.1985 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE DATA ***

SOURCE	T Y P E	M A X	NUMBER PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	BLDG. HEIGHT TYPE=0	LENGTH TYPE=0	WIDTH TYPE=0

NUMBER E E CATS. *PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1 3 0 1 0.22680E+02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

*** WHITMOYER INC.1985 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000,

SETTLING VELOCITY(METERS/SEC) :
0.0004,

SURFACE REFLECTION COEFFICIENT :
0.92000,

* CALM HOURS (=1) FOR DAY 182 * 1 1 1 1 1 1 1 0 0 1 1 0 0 1 1 1 1 1 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 183 * 0 1 1 1 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 184 * 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 185 * 1 1 0 0 0 0 1 1 0 0 1 0 1 0 1 0 0 0 0 0 0 1 1 0
* CALM HOURS (=1) FOR DAY 186 * 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 187 * 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 188 * 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 189 * 0 1 1 0 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 190 * 1 1 1 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 1 0 1 0 0 1
* CALM HOURS (=1) FOR DAY 191 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 192 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 193 * 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 194 * 1 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 195 * 0 0 0 1 1 1 0 1 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 196 * 1 1 1 1 1 1 1 0 1 1 0 1 0 0 0 0 0 0 1 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 197 * 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 198 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0
* CALM HOURS (=1) FOR DAY 199 * 0 0 1 0 0 0 0 0 0 1 1 0 1 0 0 1 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 200 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 202 * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 204 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 205 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 206 * 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 208 * 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 209 * 0 1 1 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 210 * 0 1 1 1 1 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 211 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 212 * 0 0 0 1 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 213 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 214 * 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 215 * 0 0 0 0 0 0 1 0 1 1 0 1 0 1 1 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 216 * 0 1 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 217 * 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 218 * 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1

* CALM HOURS (=1) FOR DAY 219 *	1	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0
CALM HOURS (=1) FOR DAY 220 *	1	1	1	1	1	1	1	0	0	0	1	0	0	0	1	0	0	0	1	1	1	1	1	1
CALM HOURS (=1) FOR DAY 221 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 222 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1
* CALM HOURS (=1) FOR DAY 223 *	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 224 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 225 *	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 226 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	0	1
* CALM HOURS (=1) FOR DAY 227 *	0	0	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 228 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 229 *	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	0	1	
* CALM HOURS (=1) FOR DAY 230 *	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	
* CALM HOURS (=1) FOR DAY 231 *	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	1	0	1	0	1	1	1	0	1
* CALM HOURS (=1) FOR DAY 232 *	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 233 *	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
* CALM HOURS (=1) FOR DAY 234 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	
* CALM HOURS (=1) FOR DAY 235 *	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	
* CALM HOURS (=1) FOR DAY 236 *	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 237 *	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 238 *	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 241 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 242 *	0	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 243 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 244 *	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 245 *	0	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 246 *	0	0	1	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM HOURS (=1) FOR DAY 248 *	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
CALM HOURS (=1) FOR DAY 249 *	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 250 *	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 251 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 252 *	1	1	1	1	0	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 253 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 254 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 255 *	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 256 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 257 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 258 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 259 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 260 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 261 *	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	1
* CALM HOURS (=1) FOR DAY 262 *	1	1	1	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 263 *	1	1	1	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 264 *	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	
* CALM HOURS (=1) FOR DAY 265 *	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 267 *	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 268 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 269 *	1	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 271 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
* CALM HOURS (=1) FOR DAY 272 *	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	1	1
* CALM HOURS (=1) FOR DAY 273 *	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

MAX 50
1-HR
GROUP

*** WHITMOYER INC.1985 3RD QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY **

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00001	13	214	-50.0	-300.0	26	0.00001	12	204	0.0	-300.0
2	0.00001	11	211	100.0	-300.0	27	0.00001	13	214	-50.0	-350.0
3	0.00001	12	211	0.0	-300.0	28	0.00001	13	192	50.0	-300.0
4	0.00001	11	214	-100.0	-300.0	29	0.00001	12	192	150.0	-350.0
5	0.00001	11	211	100.0	-250.0	30	0.00001	13	224	150.0	-250.0
6	0.00001	13	192	0.0	-300.0	31	0.00001	12	194	-300.0	-100.0
7	0.00001	11	186	-250.0	-200.0	32	0.00001	12	204	0.0	-350.0
8	0.00001	12	192	100.0	-250.0	33	0.00001	12	192	100.0	-300.0
9	0.00001	13	224	100.0	-250.0	34	0.00001	13	224	100.0	-300.0
10	0.00001	12	211	0.0	-250.0	35	0.00001	13	214	0.0	-300.0
11	0.00001	13	194	-300.0	-100.0	36	0.00001	12	204	50.0	-300.0
12	0.00001	11	221	-300.0	-150.0	37	0.00001	11	214	-100.0	-250.0
13	0.00001	12	192	150.0	-300.0	38	0.00001	11	186	-200.0	-200.0
14	0.00001	13	224	150.0	-300.0	39	0.00001	11	210	-300.0	-100.0
15	0.00001	12	221	-300.0	-100.0	40	0.00001	12	221	-250.0	-100.0
16	0.00001	12	185	-300.0	-150.0	41	0.00001	11	214	-100.0	-350.0
17	0.00001	12	224	150.0	-250.0	42	0.00001	12	224	200.0	-300.0
18	0.00001	12	185	-250.0	-150.0	43	0.00001	11	214	-50.0	-300.0
19	0.00001	12	211	0.0	-350.0	44	0.00001	11	211	50.0	-250.0
20	0.00001	13	214	-50.0	-250.0	45	0.00001	11	211	100.0	-350.0
21	0.00001	13	192	0.0	-250.0	46	0.00001	12	221	-300.0	-150.0
22	0.00001	11	221	-250.0	-150.0	47	0.00001	11	211	100.0	-350.0
23	0.00001	11	210	-300.0	-150.0	48	0.00001	11	210	-250.0	-150.0
24	0.00001	12	224	200.0	-250.0	49	0.00001	11	210	-250.0	-100.0
25	0.00001	13	192	0.0	-350.0	50	0.00001	13	194	-350.0	-100.0

RUN ENDED ON 09-04-90 AT 11:41:07

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 11:41:11

*** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) =	2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) =	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) =	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) =	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) =	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) =	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) =	1
2-HOUR (YES=1,NO=0)	ISW(8) =	0
3-HOUR (YES=1,NO=0)	ISW(9) =	0
4-HOUR (YES=1,NO=0)	ISW(10) =	0
6-HOUR (YES=1,NO=0)	ISW(11) =	0
8-HOUR (YES=1,NO=0)	ISW(12) =	0
12-HOUR (YES=1,NO=0)	ISW(13) =	0
24-HOUR (YES=1,NO=0)	ISW(14) =	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) =	0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) =	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) =	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) =	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) =	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) =	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) =	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) =	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) =	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) =	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) =	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) =	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) =	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) =	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) =	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) =	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) =	0
NUMBER OF INPUT SOURCES	NSOURC =	1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP =	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD =	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS =	0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS =	0
NUMBER OF DISCRETE RECEPTORS	NXNYPT =	301

```
     SOURCE EMISSION RATE UNITS CONVERSION FACTOR                                  TK =.10000E+01
     HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED                          ZR :  10.00  METERS
     LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                                  IMET :   9
     DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION                       DECAY =0.00000E+00
     SURFACE STATION NO.                                                          ISS : 14751
     YEAR OF SURFACE DATA                                                         ISY : 86
     UPPER AIR STATION NO.                                                        IUS : 93734
     YEAR OF UPPER AIR DATA                                                       IUY : 86
     ALLOCATED DATA STORAGE                                                     LIMIT : 43500 WORDS
     REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                                 MIMIT :  2294 WORDS

                  *** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

                             *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                                              (IF=1)

 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0

                     *** 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
         D        .00000E+00     .00000E+00     .00000E+00     .00000E+00     .00000E+00
         E        .20000E-01     .20000E-01     .20000E-01     .20000E-01     .20000E-01
```

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-HOT SPOT--HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(	-450.0,	-100.0),	(	-400.0,	-150.0),	(	-400.0,	-200.0),	(	-400.0,	-250.0),	(	-400.0,	-300.0),	
(	-400.0,	-350.0),	(	-400.0,	-400.0),	(	-350.0,	-100.0),	(	-350.0,	-150.0),	(	-350.0,	-200.0),	
(	-350.0,	-250.0),	(	-350.0,	-300.0),	(	-350.0,	-350.0),	(	-350.0,	-400.0),	(	-300.0,	-100.0),	
(	-300.0,	-150.0),	(	-300.0,	-200.0),	(	-300.0,	-250.0),	(	-300.0,	-300.0),	(	-300.0,	-350.0),	
(	-300.0,	-400.0),	(	-250.0,	-100.0),	(	-250.0,	-150.0),	(	-250.0,	-200.0),	(	-250.0,	-250.0),	
(	-250.0,	-300.0),	(	-250.0,	-350.0),	(	-250.0,	-400.0),	(	-200.0,	-100.0),	(	-200.0,	-150.0),	
(	-200.0,	-200.0),	(	-200.0,	-250.0),	(	-200.0,	-300.0),	(	-200.0,	-350.0),	(	-200.0,	-400.0),	
(	-150.0,	-100.0),	(	-150.0,	-150.0),	(	-150.0,	-200.0),	(	-150.0,	-250.0),	(	-150.0,	-300.0),	
(	-150.0,	-350.0),	(	-150.0,	-400.0),	(	-100.0,	-100.0),	(	-100.0,	-150.0),	(	-100.0,	-200.0),	
(	-100.0,	-250.0),	(	-100.0,	-300.0),	(	-100.0,	-350.0),	(	-100.0,	-400.0),	(	350.0,	-100.0),	
(	350.0,	-150.0),	(	350.0,	-200.0),	(	350.0,	-250.0),	(	350.0,	-300.0),	(	350.0,	-350.0),	
(	350.0,	-400.0),	(	400.0,	-100.0),	(	400.0,	-150.0),	(	400.0,	-200.0),	(	400.0,	-250.0),	
(	400.0,	-300.0),	(	400.0,	-350.0),	(	400.0,	-400.0),	(	450.0,	-100.0),	(	450.0,	-150.0),	
(	450.0,	-200.0),	(	450.0,	-250.0),	(	450.0,	-300.0),	(	450.0,	-350.0),	(	450.0,	-400.0),	
(	500.0,	-100.0),	(	500.0,	-150.0),	(	500.0,	-200.0),	(	500.0,	-250.0),	(	500.0,	-300.0),	
(	500.0,	-350.0),	(	500.0,	-400.0),	(	550.0,	-100.0),	(	550.0,	-150.0),	(	550.0,	-200.0),	
(	550.0,	-250.0),	(	550.0,	-300.0),	(	550.0,	-350.0),	(	550.0,	-400.0),	(	600.0,	-100.0),	
(	600.0,	-150.0),	(	600.0,	-200.0),	(	600.0,	-250.0),	(	600.0,	-300.0),	(	600.0,	-350.0),	
(	600.0,	-400.0),	(	650.0,	-100.0),	(	650.0,	-150.0),	(	650.0,	-200.0),	(	650.0,	-250.0),	
(	650.0,	-300.0),	(	650.0,	-350.0),	(	650.0,	-400.0),	(	100.0,	-350.0),	(	100.0,	-400.0),	
(	100.0,	-450.0),	(	100.0,	-500.0),	(	100.0,	-550.0),	(	100.0,	-600.0),	(	100.0,	-650.0),	
(	150.0,	-350.0),	(	150.0,	-400.0),	(	150.0,	-450.0),	(	150.0,	-500.0),	(	150.0,	-550.0),	
(	150.0,	-600.0),	(	150.0,	-650.0),	(	200.0,	-350.0),	(	200.0,	-400.0),	(	200.0,	-450.0),	
(	200.0,	-500.0),	(	200.0,	-550.0),	(	200.0,	-600.0),	(	200.0,	-650.0),	(	250.0,	-350.0),	
(	250.0,	-400.0),	(	250.0,	-450.0),	(	250.0,	-500.0),	(	250.0,	-550.0),	(	250.0,	-600.0),	
(	250.0,	-650.0),	(	300.0,	-350.0),	(	300.0,	-400.0),	(	300.0,	-450.0),	(	300.0,	-500.0),	
(	300.0,	-550.0),	(	300.0,	-600.0),	(	300.0,	-650.0),	(	350.0,	-350.0),	(	350.0,	-400.0),	
(	350.0,	-450.0),	(	350.0,	-500.0),	(	350.0,	-550.0),	(	350.0,	-600.0),	(	350.0,	-650.0),	
(	400.0,	-350.0),	(	400.0,	-400.0),	(	400.0,	-450.0),	(	400.0,	-500.0),	(	400.0,	-550.0),	
(	400.0,	-600.0),	(	400.0,	-650.0),	(	600.0,	-350.0),	(	600.0,	-400.0),	(	600.0,	-450.0),	
(	600.0,	-500.0),	(	600.0,	-550.0),	(	600.0,	-600.0),	(	600.0,	-650.0),	(	650.0,	-350.0),	
(	650.0,	-400.0),	(	650.0,	-450.0),	(	650.0,	-500.0),	(	650.0,	-550.0),	(	650.0,	-600.0),	
(	650.0,	-650.0),	(	700.0,	-350.0),	(	700.0,	-400.0),	(	700.0,	-450.0),	(	700.0,	-500.0),	
(	700.0,	-550.0),	(	700.0,	-600.0),	(	700.0,	-650.0),	(	750.0,	-350.0),	(	750.0,	-400.0),	
(	750.0,	-450.0),	(	750.0,	-500.0),	(	750.0,	-550.0),	(	750.0,	-600.0),	(	750.0,	-650.0),	
(	800.0,	-350.0),	(	800.0,	-400.0),	(	800.0,	-450.0),	(	800.0,	-500.0),	(	800.0,	-550.0),	
(	800.0,	-600.0),	(	800.0,	-650.0),	(	850.0,	-350.0),	(	850.0,	-400.0),	(	850.0,	-450.0),	
(	850.0,	-500.0),	(	850.0,	-550.0),	(	850.0,	-600.0),	(	850.0,	-650.0),	(	900.0,	-350.0),	
(	900.0,	-400.0),	(	900.0,	-450.0),	(	900.0,	-500.0),	(	900.0,	-550.0),	(	900.0,	-600.0),	
(	900.0,	-650.0),	(	200.0,	-100.0),	(	200.0,	-150.0),	(	200.0,	-200.0),	(	200.0,	-250.0),	
(	200.0,	-300.0),	(	200.0,	-350.0),	(	200.0,	-400.0),	(	250.0,	-100.0),	(	250.0,	-150.0),	
(	250.0,	-200.0),	(	250.0,	-250.0),	(	250.0,	-300.0),	(	250.0,	-350.0),	(	250.0,	-400.0),	
(	300.0,	-100.0),	(	300.0,	-150.0),	(	300.0,	-200.0),	(	300.0,	-250.0),	(	300.0,	-300.0),	
(	300.0,	-350.0),	(	300.0,	-400.0),	(	350.0,	-100.0),	(	350.0,	-150.0)				
(	350.0,	-250.0),	(	350.0,	-300.0),	(	350.0,	-350.0),	(	350.0,	-400.0)				
(	400.0,	-150.0),	(	400.0,	-200.0),	(	400.0,	-250.0),	(	400.0,	-300.0)				

(400.0,	-400.0),	(-50.0,	-100.0),	(-50.0,	-150.0),	(-50.0,	-200.0),	(-50.0,	-250.0),
(-50.0,	-300.0),	(-50.0,	-350.0),	(-50.0,	-400.0),	(0.0,	-100.0),	(0.0,	-150.0),
(0.0,	-200.0),	(0.0,	-250.0),	(0.0,	-300.0),	(0.0,	-350.0),	(0.0,	-400.0),
(50.0,	-100.0),	(50.0,	-150.0),	(50.0,	-200.0),	(50.0,	-250.0),	(50.0,	-300.0),
(50.0,	-350.0),	(50.0,	-400.0),	(100.0,	-100.0),	(100.0,	-150.0),	(100.0,	-200.0),
(100.0,	-250.0),	(100.0,	-300.0),	(100.0,	-350.0),	(100.0,	-400.0),	(150.0,	-100.0),
(150.0,	-150.0),	(150.0,	-200.0),	(150.0,	-250.0),	(150.0,	-300.0),	(150.0,	-350.0),
(150.0,	-400.0),	(950.0,	-350.0),	(950.0,	-400.0),	(950.0,	-450.0),	(950.0,	-500.0),
(950.0,	-550.0),	(950.0,	-600.0),	(950.0,	-650.0),	(1000.0,	-350.0),	(1000.0,	-400.0),
(1000.0,	-450.0),	(1000.0,	-500.0),	(1000.0,	-550.0),	(1000.0,	-600.0),	(1000.0,	-650.0),
(1050.0,	-350.0),	(1050.0,	-400.0),	(1050.0,	-450.0),	(1050.0,	-500.0),	(1050.0,	-550.0),
(1050.0,	-600.0),	(1050.0,	-650.0),	(1100.0,	-350.0),	(1100.0,	-400.0),	(1100.0,	-450.0),
(1100.0,	-500.0),	(1100.0,	-550.0),	(1100.0,	-600.0),	(1100.0,	-650.0),	(1150.0,	-350.0
(1150.0,	-400.0),	(1150.0,	-450.0),	(1150.0,	-500.0),	(1150.0,	-550.0),	(1150.0,	-600.0),
(1150.0,	-650.0),								

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*** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	146.30429
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0	-300.0	146.30429
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0	-100.0	146.30429
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0		

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	155.44830
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	155.44830
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0	-300.0	146.30429
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0		
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0		

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

*** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE DATA ***

SOURCE	P Y	A X	NUMBER PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	B HE TYPE=0	TYPE=0	TYPE=0

NUMBER E E CATS. **PER METER**2 (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) (METERS) METERS)

1 0 0 1 0.22660E+02 0.0 0.0 146.3 25.00 344.30 3.55 1.20 0.00 0.00 0.0

*** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP,UPPER-HOT SPOT-HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000.

SETTLING VELOCITY(METERS/SEC) :
0.0004.

SURFACE REFLECTION COEFFICIENT :
0.92000.

* CALM HOURS (=1) FOR DAY 91 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 92 * 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 93 * 0 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 97 * 1 0 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 98 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 102 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0
* CALM HOURS (=1) FOR DAY 103 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 104 * 1 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 105 * 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 107 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 108 * 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 109 * 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 110 * 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 111 * 0 0 0 1 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 114 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 115 * 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 116 * 1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 117 * 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 118 * 0 0 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 119 * 1 0 0 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 120 * 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 121 * 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 124 * 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 126 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 127 * 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 128 * 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 129 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0
* CALM HOURS (=1) FOR DAY 130 * 0 0 0 0 1 1 1 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 132 * 0 0 1 1 0 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 133 * 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 136 * 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 * *
* CALM HOURS (=1) FOR DAY 137 * 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 *
* CALM HOURS (=1) FOR DAY 138 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 *
* CALM HOURS (=1) FOR DAY 139 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0

```
* CALM HOURS (=1) FOR DAY 143 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 144 * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 145 * 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 146 * 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 147 * 0 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 148 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 149 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 151 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 152 * 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 153 * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 154 * 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 155 * 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 156 * 0 0 1 1 1 1 1 1 0 0 1 1 0 0 0 0 0 0 1 1 1 1 0 1
* CALM HOURS (=1) FOR DAY 157 * 0 1 1 1 1 1 0 1 0 0 0 0 1 0 0 1 0 1 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 158 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 159 * 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 160 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 161 * 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 162 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1
* CALM HOURS (=1) FOR DAY 163 * 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 164 * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 165 * 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 166 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 170 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 171 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 172 * 0 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 173 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1
* CALM HOURS (=1) FOR DAY 174 * 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 175 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 177 * 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1
* CALM HOURS (=1) FOR DAY 178 * 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 180 * 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 181 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
```

1

MAX 50
1-HR
GROUPS 1

*** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00001	12	166	-150.0	-250.0	26	0.00001	11	173	--- .	--- .
2	0.00001	11	173	-150.0	-250.0	27	0.00001	12	166		
3	0.00001	11	166	-150.0	-250.0	28	0.00001	11	173		
4	0.00001	11	132	-200.0	-250.0	29	0.00001	13	145	250.0	-200.0

5	0.00001	12	172	50.0	-300.0	30	0.00001	12	145	200.0	-200.0
6	0.00001	11	166	-150.0	-300.0	31	0.00001	13	118	-300.0	-100.0
7	0.00001	12	172	0.0	-300.0	32	0.00001	12	172	50.0	-250.0
8	0.00001	11	172	-200.0	-200.0	33	0.00001	12	130	-300.0	-100.0
9	0.00001	11	138	-300.0	-100.0	34	0.00001	12	145	250.0	-150.0
10	0.00001	11	172	-200.0	-250.0	35	0.00001	12	172	50.0	-150.0
11	0.00001	12	131	150.0	-300.0	36	0.00001	11	138	-250.0	-100.0
12	0.00001	12	166	-200.0	-250.0	37	0.00001	11	172	-250.0	-200.0
13	0.00001	12	131	100.0	-250.0	38	0.00001	12	131	100.0	-300.0
14	0.00001	11	172	-200.0	-250.0	39	0.00001	11	166	-100.0	-300.0
15	0.00001	11	166	-100.0	-250.0	40	0.00001	11	130	250.0	-200.0
16	0.00001	12	145	200.0	-250.0	41	0.00001	11	132	-150.0	-200.0
17	0.00001	12	131	150.0	-250.0	42	0.00001	11	138	-350.0	-100.0
18	0.00001	12	166	-150.0	-200.0	43	0.00001	11	166	-100.0	-200.0
19	0.00001	11	132	-200.0	-200.0	44	0.00001	13	118	-350.0	-100.0
20	0.00001	11	172	-250.0	-250.0	45	0.00001	11	138	-300.0	-150.0
21	0.00001	11	173	-150.0	-200.0	46	0.00001	13	151	300.0	-150.0
22	0.00001	12	172	0.0	-350.0	47	0.00001	11	166	-200.0	-300.0
23	0.00001	12	172	0.0	-250.0	48	0.00001	11	172	-150.0	-200.0
24	0.00001	12	166	-200.0	-300.0	49	0.00001	13	151	300.0	-200.0
25	0.00001	11	132	-250.0	-250.0	50	0.00001	12	130	-300.0	-150.0

RUN ENDED ON 09-04-90 AT 11:45:19

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 11:45:23

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) = 1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) = 3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) = 1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) = 1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) = 0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) = 1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)	
WITH THE FOLLOWING TIME PERIODS:	
HOURLY (YES=1,NO=0)	ISW(7) = 1
2-HOUR (YES=1,NO=0)	ISW(8) = 0
3-HOUR (YES=1,NO=0)	ISW(9) = 0
4-HOUR (YES=1,NO=0)	ISW(10) = 0
6-HOUR (YES=1,NO=0)	ISW(11) = 0
8-HOUR (YES=1,NO=0)	ISW(12) = 0
12-HOUR (YES=1,NO=0)	ISW(13) = 0
24-HOUR (YES=1,NO=0)	ISW(14) = 0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) = 0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE	
SPECIFIED BY ISW(7) THROUGH ISW(14):	
DAILY TABLES (YES=1,NO=0)	ISW(16) = 0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) = 0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) = 1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) = 1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) = 0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) = 1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) = 1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) = 0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) = 1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) = 2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) = 1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) = 1
REC. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) = 1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) = 2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) = 2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) = 0
NUMBER OF INPUT SOURCES	NSOURC = 1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP = 0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD = 0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS = 0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS = 0
NUMBER OF DISCRETE RECEPTORS	NXNYPT = 301

```
SOURCE EMISSION RATE UNITS CONVERSION FACTOR                 TK = .10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED         ZR =  10.00  METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                 IMET =   9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION      DECAY =0.000000E+00
SURFACE STATION NO.                                         ISS = 14751
YEAR OF SURFACE DATA                                        ISY = 87
UPPER AIR STATION NO.                                       IUS = 93734
YEAR OF UPPER AIR DATA                                      IUY = 87
ALLOCATED DATA STORAGE                                    LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                MIMIT =  2294 WORDS
```

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0
```

*** 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+	
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-	

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-0.

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

-400.0,	-100.0),	-400.0,	-150.0),	-400.0,	-200.0),	-400.0,	-250.0),	-400.0,	-3.. ..
-400.0,	-350.0),	-400.0,	-400.0),	-350.0,	-100.0),	-350.0,	-150.0),	-350.0,	-... ..
-350.0,	-200.0),	-350.0,	-300.0),	-350.0,	-350.0),	-350.0,	-400.0),	-300.0,	-... ..
-300.0,	-150.0),	-300.0,	-200.0),	-300.0,	-250.0),	-300.0,	-300.0),	-300.0	-35. ..
-300.0,	-400.0),	-250.0,	-100.0),	-250.0,	-150.0),	-250.0,	-200.0),	-250.0	-.5. .
-250.0,	-300.0),	-250.0,	-350.0),	-250.0,	-400.0),	-200.0,	-100.0),	-200.0	-.5. ..
-200.0,	-200.0),	-200.0,	-250.0),	-200.0,	-300.0),	-200.0,	-350.0),	-200.0	-... ..
-150.0,	-100.0),	-150.0,	-150.0),	-150.0,	-200.0),	-150.0,	-250.0),	-150.0	-... ..
-150.0,	-350.0),	-150.0,	-400.0),	-100.0,	-100.0),	-100.0,	-150.0),	-.00.0	-... .
-100.0,	-250.0),	-100.0,	-300.0),	-100.0,	-350.0),	-100.0,	-400.0),	350.0	-... ..
350.0,	-150.0),	350.0,	-200.0),	350.0,	-250.0),	350.0,	-300.0),	350.0	-35. ..
350.0,	-400.0),	400.0,	-100.0),	400.0,	-150.0),	400.0,	-200.0),	400.0	-.50 ..
400.0,	-300.0),	400.0,	-350.0),	400.0,	-400.0),	450.0,	-100.0),	450.0	-15. ..
450.0,	-200.0),	450.0,	-250.0),	450.0,	-300.0),	450.0,	-350.0),	450.0	-400 ..
500.0,	-100.0),	500.0,	-150.0),	500.0,	-200.0),	500.0,	-250.0),	500.0	-250.0.
500.0,	-350.0),	500.0,	-400.0),	550.0,	-100.0),	550.0,	-150.0),	550.0	-200 ..
550.0,	-250.0),	550.0,	-300.0),	550.0,	-350.0),	550.0,	-400.0),	600.0	-150 0
600.0,	-150.0),	600.0,	-200.0),	600.0,	-250.0),	600.0,	-300.0),	600.0	-350 .
600.0,	-400.0),	650.0,	-100.0),	650.0,	-150.0),	650.0,	-200.0),	650.0	-.50 ..
650.0,	-300.0),	650.0,	-350.0),	650.0,	-400.0),	100.0,	-350.0),	100 .	-4.. ..
100.0,	-450.0),	100.0,	-500.0),	100.0,	-550.0),	100.0,	-600.0),	100..	-a50 .
150.0,	-350.0),	150.0,	-400.0),	150.0,	-450.0),	150.0,	-500.0),	150..	-55. .
150.0,	-600.0),	150.0,	-650.0),	200.0,	-350.0),	200.0,	-400.0),	200.0	-450 ..
200.0,	-500.0),	200.0,	-550.0),	200.0,	-600.0),	200.0,	-650.0),	250.0	-350 0.
250.0,	-400.0),	250.0,	-450.0),	250.0,	-500.0),	250.0,	-550.0),	250.0	-600 . .
250.0,	-650.0),	300.0,	-350.0),	300.0,	-400.0),	300.0,	-450.0),	300.0	-5.. ..
300.0,	-550.0),	300.0,	-600.0),	300.0,	-650.0),	350.0,	-350.0),	350.0	-400 0.
350.0,	-450.0),	350.0,	-500.0),	350.0,	-550.0),	350.0,	-600.0),	350 0	-a50 0.
400.0,	-350.0),	400.0,	-400.0),	400.0,	-450.0),	400.0,	-500.0),	400.0	-55. ..
400.0,	-600.0),	400.0,	-650.0),	600.0,	-350.0),	600.0,	-400.0),	600.0	-450 0.
600.0,	-500.0),	600.0,	-550.0),	600.0,	-600.0),	600.0,	-650.0),	650.0	-350 0.
650.0,	-400.0),	650.0,	-450.0),	650.0,	-500.0),	650.0,	-550.0),	650.0	-600 0.
650.0,	-650.0),	700.0,	-350.0),	700.0,	-400.0),	700.0,	-450.0),	700.0	-550 ..
700.0,	-550.0),	700.0,	-600.0),	700.0,	-650.0),	750.0,	-350.0),	750.0	-400 0.
750.0,	-450.0),	750.0,	-500.0),	750.0,	-550.0),	750.0,	-600.0),	750.0	-650 0.
800.0,	-350.0),	800.0,	-400.0),	800.0,	-450.0),	800.0,	-500.0),	800.0,	-550 0.
800.0,	-600.0),	800.0,	-650.0),	850.0,	-350.0),	850.0,	-400.0),	850.0,	-450 0.
850.0,	-500.0),	850.0,	-550.0),	850.0,	-600.0),	850.0,	-650.0),	900.0,	-350 0.
900.0,	-400.0),	900.0,	-450.0),	900.0,	-500.0),	900.0,	-550.0),	900.0,	-600 0.
900.0,	-650.0),	200.0,	-100.0),	200.0,	-150.0),	200.0,	-200.0),	200.0,	-250.0.
200.0,	-300.0),	200.0,	-350.0),	200.0,	-400.0),	250.0,	-100.0),	250.0.	-150 0.
250.0,	-200.0),	250.0,	-250.0),	250.0,	-300.0),	250.0,	-350.0),	250.0,	-400.0.
300.0,	-100.0),	300.0,	-150.0),	300.0,	-200.0),	300.0,	-250.0)	300.0.	-300.0.
300.0,	-350.0),	300.0,	-400.0),	350.0,	-100.0),	350.0,	-150.0)		
350.0,	-250.0),	350.0,	-300.0),	350.0,	-350.0),	350.0,	-400.0)		
400.0,	-150.0),	400.0,	-200.0),	400.0,	-250.0),	400.0,	-300.0),	...	

(	400.0,	-400.0),	(	-50.0,	-100.0),	(	-50.0,	-150.0),	(	-50.0,	-200.0),	(	-50.0,	-250.0),
(	-50.0,	-300.0),	(	-50.0,	-350.0),	(	-50.0,	-400.0),	(	0.0,	-100.0),	(	0.0,	-150.0),
(	0.0,	-200.0),	(	0.0,	-250.0),	(	0.0,	-300.0),	(	0.0,	-350.0),	(	0.0,	-400.0),
(	50.0,	-100.0),	(	50.0,	-150.0),	(	50.0,	-200.0),	(	50.0,	-250.0),	(	50.0,	-300.0),
(	50.0,	-350.0),	(	50.0,	-400.0),	(	100.0,	-100.0),	(	100.0,	-150.0),	(	100.0,	-200.0),
(	100.0,	-250.0),	(	100.0,	-300.0),	(	100.0,	-350.0),	(	100.0,	-400.0),	(	150.0,	-100.0),
(	150.0,	-150.0),	(	150.0,	-200.0),	(	150.0,	-250.0),	(	150.0,	-300.0),	(	150.0,	-350.0),
(	150.0,	-400.0),	(	950.0,	-350.0),	(	950.0,	-400.0),	(	950.0,	-450.0),	(	950.0,	-500.0),
(	950.0,	-550.0),	(	950.0,	-600.0),	(	950.0,	-650.0),	(	1000.0,	-350.0),	(	1000.0,	-400.0),
(	1000.0,	-450.0),	(	1000.0,	-500.0),	(	1000.0,	-550.0),	(	1000.0,	-600.0),	(	1000.0,	-650.0),
(	1050.0,	-350.0),	(	1050.0,	-400.0),	(	1050.0,	-450.0),	(	1050.0,	-500.0),	(	1050.0,	-550.0),
(	1050.0,	-600.0),	(	1050.0,	-650.0),	(	1100.0,	-350.0),	(	1100.0,	-400.0),	(	1100.0,	-450.0),
(	1100.0,	-500.0),	(	1100.0,	-550.0),	(	1100.0,	-600.0),	(	1100.0,	-650.0),	(	1150.0,	-350.0),
(	1150.0,	-400.0),	(	1150.0,	-450.0),	(	1150.0,	-500.0),	(	1150.0,	-550.0),	(	1150.0,	-600.0),
(	1150.0,	-650.0),	(												

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	-350.0	146.30429
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0	-150.0	146.30429
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0		
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0		
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0	---	

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-350.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0		
200.0	-300.0	146.30429	200.0	-400.0	149.35229	250.0		
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0	-----	-----------

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE DATA ***

SOURCE	T Y P E	M A NUMBER PART.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	HEIGHT TYPE=0	LENGTH TYPE=0	WIDTH TYPE=0

NUMBER E E CATS. *PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1 0 0 1 0.22680E+02	0.0	0.0	146.3	65.00	344.30	3.55	1.20	0.00	0.00	0.00

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HUT SPOT-HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000.

SETTLING VELOCITY(METERS/SEC) :
0.0004.

SURFACE REFLECTION COEFFICIENT :
0.92000.

* CALM HOURS (=1) FOR DAY 91 *	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
* CALM HOURS (=1) FOR DAY 92 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 93 *	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
* CALM HOURS (=1) FOR DAY 95 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0
* CALM HOURS (=1) FOR DAY 97 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 98 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 99 *	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1
* CALM HOURS (=1) FOR DAY 100 *	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 101 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 102 *	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 103 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 104 *	0	0	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 106 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 107 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 108 *	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 109 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 110 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 111 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 112 *	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 114 *	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 115 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 116 *	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 117 *	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 118 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 121 *	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 122 *	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	1	0	1	1	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 123 *	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 124 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 125 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 126 *	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 127 *	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 128 *	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
* CALM HOURS (=1) FOR DAY 129 *	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
* CALM HOURS (=1) FOR DAY 130 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

```
* CALM HOURS (=1) FOR DAY 131 * 1 1 0 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 132 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 133 * 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 134 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 135 * 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 136 * 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 137 * 1 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 138 * 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 1 0 1 1 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 141 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 142 * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 143 * 1 1 1 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 144 * 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
* CALM HOURS (=1) FOR DAY 147 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 148 * 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0
* CALM HOURS (=1) FOR DAY 149 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 150 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 151 * 1 1 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 152 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 153 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0
* CALM HOURS (=1) FOR DAY 155 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 156 * 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 157 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 158 * 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 159 * 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 161 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 162 * 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 163 * 0 0 0 1 1 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 164 * 0 1 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 165 * 0 0 0 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 166 * 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 167 * 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 168 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 169 * 1 0 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 170 * 0 1 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1
* CALM HOURS (=1) FOR DAY 171 * 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 172 * 0 0 1 0 1 0 1 0 1 1 1 1 0 1 0 0 0 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 173 * 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 1 0
* CALM HOURS (=1) FOR DAY 174 * 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 175 * 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 0 0 0 1 0 0 1
* CALM HOURS (=1) FOR DAY 176 * 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 178 * 0 1 1 0 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 179 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 180 * 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 181 * 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

1

MAX 50
1-HR
SCROUP8 1

*** WHITMOYER INC.1987 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

8

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00001	13	167	-50.0	-300.0	26	0.00001	13	149	50.0	-300.0
2	0.00001	13	149	0.0	-300.0	27	0.00001	12	167	0.0	-350.0
3	0.00001	11	167	-200.0	-250.0	28	0.00001	12	165	300.0	-150.0
4	0.00001	12	176	-100.0	-250.0	29	0.00001	12	121	300.0	-100.0
5	0.00001	14	170	-250.0	-200.0	30	0.00001	11	167	-200.0	-300.0
6	0.00001	12	167	-50.0	-300.0	31	0.00001	12	167	-50.0	-350.0
7	0.00001	12	176	-150.0	-300.0	32	0.00001	14	170	-200.0	-150.0
8	0.00001	13	149	0.0	-250.0	33	0.00001	11	128	50.0	-350.0
9	0.00001	12	176	-150.0	-250.0	34	0.00001	14	170	-200.0	-200.0
10	0.00001	11	167	-150.0	-250.0	35	0.00001	14	170	-250.0	-150.0
11	0.00001	13	168	0.0	-300.0	36	0.00001	11	128	0.0	-250.0
12	0.00001	11	171	-300.0	-100.0	37	0.00001	13	167	-100.0	-300.0
13	0.00001	11	128	50.0	-300.0	38	0.00001	11	171	-350.0	-100.0
14	0.00001	11	128	0.0	-300.0	39	0.00001	12	176	-100.0	-200.0
15	0.00001	11	167	-150.0	-200.0	40	0.00001	13	168	0.0	-250.0
16	0.00001	13	150	250.0	-200.0	41	0.00001	13	150	300.0	-200.0
17	0.00001	12	150	250.0	-200.0	42	0.00001	14	170	-300.0	-200.0
18	0.00001	13	149	0.0	-350.0	43	0.00001	12	150	300.0	-200.0
19	0.00001	12	167	0.0	-300.0	44	0.00001	12	152	350.0	-100.0
20	0.00001	12	176	-100.0	-300.0	45	0.00001	12	152	350.0	-100.0
21	0.00001	13	168	0.0	-350.0	46	0.00001	11	171	-250.0	-100.0
22	0.00001	13	167	-50.0	-250.0	47	0.00001	13	168	50.0	-300.0
23	0.00001	13	167	-50.0	-350.0	48	0.00001	11	128	50.0	-350.0
24	0.00001	12	152	300.0	-100.0	49	0.00001	12	167	0.0	-250.0
25	0.00001	11	128	0.0	-350.0	50	0.00001	13	150	250.0	-150.0

RUN ENDED ON 09-04-90 AT 11:49:01

```
    TSCST - VERSION 3.4 (DATED 88348)

    TEM-PC VERSION (2.01).
    (C) COPYRIGHT 1988. TRINITY CONSULTANTS, INC.
    SERIAL NUMBER 5598 SOLD TO NUS CORPORATION
    RUN BEGAN ON 09-06-90 AT 09:01:38

          *** WHITMOYER INC. 1987 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)                    ISW(1) =  1
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)     ISW(2) =  3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)            ISW(3) =  1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)                    ISW(4) =  1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)               ISW(5) =  0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)            ISW(6) =  1

COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)
WITH THE FOLLOWING TIME PERIODS:
  HOURLY (YES=1,NO=0)                                       ISW(7) =  1
  2-HOUR (YES=1,NO=0)                                       ISW(8) =  0
  3-HOUR (YES=1,NO=0)                                       ISW(9) =  0
  4-HOUR (YES=1,NO=0)                                      ISW(10) =  0
  6-HOUR (YES=1,NO=0)                                      ISW(11) =  0
  8-HOUR (YES=1,NO=0)                                      ISW(12) =  0
  12-HOUR (YES=1,NO=0)                                     ISW(13) =  0
  24-HOUR (YES=1,NO=0)                                     ISW(14) =  0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)                        ISW(15) =  0

PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE
SPECIFIED BY ISW(7) THROUGH ISW(14):
  DAILY TABLES (YES=1,NO=0)                                ISW(16) =  0
  HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)             ISW(17) =  0
  MAXIMUM 50 TABLES (YES=1,NO=0)                           ISW(18) =  1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)  ISW(19) =  1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)  ISW(20) =  0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)  ISW(21) =  1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)  ISW(22) =  1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)          ISW(23) =  0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)      ISW(24) =  1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)  ISW(25) =  2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)      ISW(26) =  1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)    ISW(27) =  1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)                    ISW(28) =  1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)           ISW(29) =  2
DEBUG OPTION CHOSEN (YES=1,NO=2)                           ISW(30) =  2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)        ISW(31) =  0

NUMBER OF INPUT SOURCES                                    NSOURC =  1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)                   NGROUP =  0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)       IPERD =  0
NUMBER OF X (RANGE) GRID VALUES                            NXPNTS =  0
NUMBER OF Y (THETA) GRID VALUES                            NYPNTS =  0
NUMBER OF DISCRETE RECEPTORS                               NXNYPT = 201
```

```
SOURCE EMISSION RATE UNITS CONVERSION FACTOR                       TK = .10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED               ZR = 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                       IMET =   9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION            DECAY = .000000E+00
SURFACE STATION NO.                                               ISS = 14751
YEAR OF SURFACE DATA                                              ISY = 87
UPPER AIR STATION NO.                                             IUS = 93734
YEAR OF UPPER AIR DATA                                            IUY = 87
ALLOCATED DATA STORAGE                                          LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                      MIMIT =  2294 WORDS
```

*** WHITMOYER INC. 1987 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0
```

*** 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	
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	

AR304142

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC. 1987 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-400.0,	-100.0),	(-400.0,	-150.0),	(-400.0,	-200.0),	(-400.0,	-250.0),	(-400.0,	-300.0),
(-400.0,	-350.0),	(-400.0,	-400.0),	(-350.0,	-100.0),	(-350.0,	-150.0),	(-350.0,	-200.0),
(-350.0,	-250.0),	(-350.0,	-300.0),	(-350.0,	-350.0),	(-350.0,	-400.0),	(-300.0,	-100.0),
(-300.0,	-150.0),	(-300.0,	-200.0),	(-300.0,	-250.0),	(-300.0,	-300.0),	(-300.0,	-350.0),
(-300.0,	-400.0),	(-250.0,	-100.0),	(-250.0,	-150.0),	(-250.0,	-200.0),	(-250.0,	-250.0),
(-250.0,	-300.0),	(-250.0,	-350.0),	(-250.0,	-400.0),	(-200.0,	-100.0),	(-200.0,	-150.0),
(-200.0,	-200.0),	(-200.0,	-250.0),	(-200.0,	-300.0),	(-200.0,	-350.0),	(-200.0,	-400.0),
(-150.0,	-100.0),	(-150.0,	-150.0),	(-150.0,	-200.0),	(-150.0,	-250.0),	(-150.0,	-300.0),
(-150.0,	-350.0),	(-150.0,	-400.0),	(-100.0,	-100.0),	(-100.0,	-150.0),	(-100.0,	-200.0),
(-100.0,	-250.0),	(-100.0,	-300.0),	(-100.0,	-350.0),	(-100.0,	-400.0),	(350.0,	-100.0),
(350.0,	-150.0),	(350.0,	-200.0),	(350.0,	-250.0),	(350.0,	-300.0),	(350.0,	-350.0),
(350.0,	-400.0),	(400.0,	-100.0),	(400.0,	-150.0),	(400.0,	-200.0),	(400.0,	-250.0),
(400.0,	-300.0),	(400.0,	-350.0),	(400.0,	-400.0),	(450.0,	-100.0),	(450.0,	-150.0),
(450.0,	-200.0),	(450.0,	-250.0),	(450.0,	-300.0),	(450.0,	-350.0),	(450.0,	-400.0),
(500.0,	-100.0),	(500.0,	-150.0),	(500.0,	-200.0),	(500.0,	-250.0),	(500.0,	-300.0),
(500.0,	-350.0),	(500.0,	-400.0),	(550.0,	-100.0),	(550.0,	-150.0),	(550.0,	-200.0),
(550.0,	-250.0),	(550.0,	-300.0),	(550.0,	-350.0),	(550.0,	-400.0),	(600.0,	-100.0),
(600.0,	-150.0),	(600.0,	-200.0),	(600.0,	-250.0),	(600.0,	-300.0),	(600.0,	-350.0),
(600.0,	-400.0),	(650.0,	-100.0),	(650.0,	-150.0),	(650.0,	-200.0),	(650.0,	-250.0),
(650.0,	-300.0),	(650.0,	-350.0),	(650.0,	-400.0),	(100.0,	-350.0),	(100.0,	-400.0),
(100.0,	-450.0),	(100.0,	-500.0),	(100.0,	-550.0),	(100.0,	-600.0),	(100.0,	-650.0),
(150.0,	-350.0),	(150.0,	-400.0),	(150.0,	-450.0),	(150.0,	-500.0),	(150.0,	-550.0),
(150.0,	-600.0),	(150.0,	-650.0),	(200.0,	-350.0),	(200.0,	-400.0),	(200.0,	-450.0),
(200.0,	-500.0),	(200.0,	-550.0),	(200.0,	-600.0),	(200.0,	-650.0),	(250.0,	-350.0),
(250.0,	-400.0),	(250.0,	-450.0),	(250.0,	-500.0),	(250.0,	-550.0),	(250.0,	-600.0),
(250.0,	-650.0),	(300.0,	-350.0),	(300.0,	-400.0),	(300.0,	-450.0),	(300.0,	-500.0),
(300.0,	-550.0),	(300.0,	-600.0),	(300.0,	-650.0),	(350.0,	-350.0),	(350.0,	-400.0),
(350.0,	-450.0),	(350.0,	-500.0),	(350.0,	-550.0),	(350.0,	-600.0),	(350.0,	-650.0),
(400.0,	-350.0),	(400.0,	-400.0),	(400.0,	-450.0),	(400.0,	-500.0),	(400.0,	-550.0),
(400.0,	-600.0),	(400.0,	-650.0),	(600.0,	-350.0),	(600.0,	-400.0),	(600.0,	-450.0),
(600.0,	-500.0),	(600.0,	-550.0),	(600.0,	-600.0),	(600.0,	-650.0),	(650.0,	-350.0),
(650.0,	-400.0),	(650.0,	-450.0),	(650.0,	-500.0),	(650.0,	-550.0),	(650.0,	-600.0),
(650.0,	-650.0),	(700.0,	-350.0),	(700.0,	-400.0),	(700.0,	-450.0),	(700.0,	-500.0),
(700.0,	-550.0),	(700.0,	-600.0),	(700.0,	-650.0),	(750.0,	-350.0),	(750.0,	-400.0),
(750.0,	-450.0),	(750.0,	-500.0),	(750.0,	-550.0),	(750.0,	-600.0),	(750.0,	-650.0),
(800.0,	-350.0),	(800.0,	-400.0),	(800.0,	-450.0),	(800.0,	-500.0),	(800.0,	-550.0),
(800.0,	-600.0),	(800.0,	-650.0),	(850.0,	-350.0),	(850.0,	-400.0),	(850.0,	-450.0),
(850.0,	-500.0),	(850.0,	-550.0),	(850.0,	-600.0),	(850.0,	-650.0),	(900.0,	-350.0),
(900.0,	-400.0),	(900.0,	-450.0),	(900.0,	-500.0),	(900.0,	-550.0),	(900.0,	-600.0),
(900.0,	-650.0),	(200.0,	-100.0),	(200.0,	-150.0),	(200.0,	-200.0),	(200.0,	-250.0),
(200.0,	-300.0),	(200.0,	-350.0),	(200.0,	-400.0),	(250.0,	-100.0),	(250.0,	-150.0),
(250.0,	-200.0),	(250.0,	-250.0),	(250.0,	-300.0),	(250.0,	-350.0),	(250.0,	-400.0),
(300.0,	-100.0),	(300.0,	-150.0),	(300.0,	-200.0),	(300.0,	-250	300.0,	-300.0),
(300.0,	-350.0),	(300.0,	-400.0),	(350.0,	-100.0),	(350.0,	-150		.0),
(350.0,	-250.0),	(350.0,	-300.0),	(350.0,	-350.0),	(350.0,	-40		.0),
(400.0,	-150.0),	(400.0,	-200.0),	(400.0,	-250.0),	(400.0,	-300.0),	(400.0,	.0),

(400.0,	-400.0),	(-50.0,	-100.0),	(-50.0,	-150.0),	(-50.0,	-200.0),	(-50.0,	-250.0),
(-50.0,	-300.0),	(-50.0,	-350.0),	(-50.0,	-400.0),	(.0,	-100.0),	(.0,	-150.0),
(.0,	-200.0),	(.0,	-250.0),	(.0,	-300.0),	(.0,	-350.0),	(.0,	-400.0),
(50.0,	-100.0),	(50.0,	-150.0),	(50.0,	-200.0),	(50.0,	-250.0),	(50.0,	-300.0),
(50.0,	-350.0),	(50.0,	-400.0),	(100.0,	-100.0),	(100.0,	-150.0),	(100.0,	-200.0),
(100.0,	-250.0),	(100.0,	-300.0),	(100.0,	-350.0),	(100.0,	-400.0),	(150.0,	-100.0),
(150.0,	-150.0),	(150.0,	-200.0),	(150.0,	-250.0),	(150.0,	-300.0),	(150.0,	-350.0),
(150.0,	-400.0),	(950.0,	-350.0),	(950.0,	-400.0),	(950.0,	-450.0),	(950.0,	-500.0),
(950.0,	-550.0),	(950.0,	-600.0),	(950.0,	-650.0),	(1000.0,	-350.0),	(1000.0,	-400.0),
(1000.0,	-450.0),	(1000.0,	-500.0),	(1000.0,	-550.0),	(1000.0,	-600.0),	(1000.0,	-650.0),
(1050.0,	-350.0),	(1050.0,	-400.0),	(1050.0,	-450.0),	(1050.0,	-500.0),	(1050.0,	-550.0),
(1050.0,	-600.0),	(1050.0,	-650.0),	(1100.0,	-350.0),	(1100.0,	-400.0),	(1100.0,	-450.0),
(1100.0,	-500.0),	(1100.0,	-550.0),	(1100.0,	-600.0),	(1100.0,	-650.0),	(1150.0,	-350.0),
(1150.0,	-400.0),	(1150.0,	-450.0),	(1150.0,	-500.0),	(1150.0,	-550.0),	(1150.0,	-600.0),
(1150.0,	-650.0),								

*** WHITMOYER INC. 1987 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30430	-400.0	-150.0	146.30430	-400.0	-200.0	149.35230
-400.0	-250.0	149.35230	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30430	-350.0	-150.0	149.35230
-350.0	-200.0	149.35230	-350.0	-250.0	149.35230	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	149.35230
-300.0	-150.0	149.35230	-300.0	-200.0	149.35230	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30430	-250.0	-150.0	149.35230	-250.0	-200.0	149.35230
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30430	-200.0	-150.0	149.35230
-200.0	-200.0	149.35230	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30430
-150.0	-150.0	149.35230	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30430	-100.0	-150.0	149.35230	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25630	350.0	-150.0	143.25630
350.0	-200.0	143.25630	350.0	-250.0	146.30430	350.0	-300.0	146.30430
350.0	-350.0	149.35230	350.0	-400.0	149.35230	400.0	-100.0	143.25630
400.0	-150.0	143.25630	400.0	-200.0	146.30430	400.0	-250.0	146.30430
400.0	-300.0	146.30430	400.0	-350.0	146.30430	400.0	-400.0	146.30430
450.0	-100.0	143.25630	450.0	-150.0	146.30430	450.0	-200.0	146.30430
450.0	-250.0	146.30430	450.0	-300.0	146.30430	450.0	-350.0	146.30430
450.0	-400.0	146.30430	500.0	-100.0	143.25630	500.0	-150.0	146.30430
500.0	-200.0	146.30430	500.0	-250.0	146.30430	500.0		
500.0	-350.0	143.25630	500.0	-400.0	146.30430	550.0		
550.0	-150.0	146.30430	550.0	-200.0	146.30430	550.0		

550.0	-300.0	146.30430	550.0	-350.0	146.30430	550.0	-400.0	146.30430
600.0	-100.0	146.30430	600.0	-150.0	146.30430	600.0	-200.0	146.30430
600.0	-250.0	146.30430	600.0	-300.0	146.30430	600.0	-350.0	146.30430
600.0	-400.0	146.30430	650.0	-100.0	146.30430	650.0	-150.0	146.30430
650.0	-200.0	146.30430	650.0	-250.0	146.30430	650.0	-300.0	146.30430
650.0	-350.0	146.30430	650.0	-400.0	146.30430	100.0	-350.0	149.35230
100.0	-400.0	149.35230	100.0	-450.0	149.35230	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49630	100.0	-650.0	158.49630
150.0	-350.0	149.35230	150.0	-400.0	149.35230	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30430	200.0	-400.0	149.35230

YYY WHITMOYER INC. 1987 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY YYY

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35230
250.0	-400.0	149.35230	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35230	300.0	-400.0	149.35230	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35230	350.0	-400.0	149.35230
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30430
400.0	-400.0	149.35230	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25630	600.0	-400.0	143.25630	600.0	-450.0	143.25630
600.0	-500.0	143.25630	600.0	-550.0	143.25630	600.0	-600.0	143.25630
600.0	-650.0	143.25630	650.0	-350.0	143.25630	650.0	-400.0	143.25630
650.0	-450.0	143.25630	650.0	-500.0	146.30430	650.0	-550.0	143.25630
650.0	-600.0	143.25630	650.0	-650.0	143.25630	700.0	-350.0	143.25630
700.0	-400.0	146.30430	700.0	-450.0	146.30430	700.0	-500.0	146.30430
700.0	-550.0	146.30430	700.0	-600.0	146.30430	700.0	-650.0	146.30430
750.0	-350.0	143.25630	750.0	-400.0	146.30430	750.0	-450.0	149.35230
750.0	-500.0	149.35230	750.0	-550.0	149.35230	750.0	-600.0	149.35230
750.0	-650.0	149.35230	800.0	-350.0	146.30430	800.0	-400.0	146.30430
800.0	-450.0	149.35230	800.0	-500.0	149.35230	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35230	850.0	-350.0	146.30430
850.0	-400.0	146.30430	850.0	-450.0	149.35230	850.0	-500.0	149.35230
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30430	900.0	-400.0	146.30430	900.0	-450.0	149.35230
900.0	-500.0	149.35230	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25630	200.0	-150.0	146.30430
200.0	-200.0	146.30430	200.0	-250.0	149.35230	200.0		
200.0	-350.0	146.30430	200.0	-400.0	149.35230	250.0		
250.0	-150.0	143.25630	250.0	-200.0	146.30430	250.0		

250.0	-300.0	146.30430	250.0	-350.0	146.30430	250.0	-400.0	149.35230
300.0	-100.0	143.25630	300.0	-150.0	143.25630	300.0	-200.0	143.25630
300.0	-250.0	143.25630	300.0	-300.0	146.30430	300.0	-350.0	149.35230
300.0	-400.0	149.35230	350.0	-100.0	143.25630	350.0	-150.0	143.25630
350.0	-200.0	143.25630	350.0	-250.0	146.30430	350.0	-300.0	146.30430
350.0	-350.0	149.35230	350.0	-400.0	149.35230	400.0	-100.0	143.25630
400.0	-150.0	143.25630	400.0	-200.0	143.25630	400.0	-250.0	146.30430

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35230	400.0	-350.0	146.30430	400.0	-400.0	149.35230
-50.0	-100.0	149.35230	-50.0	-150.0	149.35230	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	.0	-100.0	149.35230	.0	-150.0	149.35230
.0	-200.0	152.40030	.0	-250.0	152.40030	.0	-300.0	152.40030
.0	-350.0	155.44830	.0	-400.0	155.44830	50.0	-100.0	149.35230
50.0	-150.0	149.35230	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35230	100.0	-150.0	149.35230	100.0	-200.0	149.35230
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35230	150.0	-100.0	149.35230	150.0	-150.0	146.30430
150.0	-200.0	149.35230	150.0	-250.0	149.35230	150.0	-300.0	149.35230
150.0	-350.0	149.35230	150.0	-400.0	149.35230	950.0	-350.0	146.30430
950.0	-400.0	146.30430	950.0	-450.0	149.35230	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30430	1000.0	-400.0	149.35230	1000.0	-450.0	149.35230
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30430	1050.0	-400.0	146.30430
1050.0	-450.0	149.35230	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30430
1100.0	-400.0	146.30430	1100.0	-450.0	149.35230	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30430	1150.0	-450.0	146.30430
1150.0	-500.0	149.35230	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC. 1987 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

*** SOURCE DATA ***

SOURCE	P A R T.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 NUMBER (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETE TYPE=0	TYPE=0	TYPE=0	G. TH TYPE=0

NUMBER	E	E	CATS.	PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
1	0	0	1	.22680E+02	.0	.0	146.3	65.00	344.30	3.55	1.20	.00	.0	.0

*** WHITMOYER INC. 1987 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000,

SETTLING VELOCITY(METERS/SEC) :
.0004,

SURFACE REFLECTION COEFFICIENT :
.92000,

* CALM HOURS (=1) FOR DAY 182 *	0	1	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
* CALM HOURS (=1) FOR DAY 183 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
* CALM HOURS (=1) FOR DAY 185 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 186 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 187 *	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 189 *	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	
* CALM HOURS (=1) FOR DAY 190 *	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	
* CALM HOURS (=1) FOR DAY 191 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 192 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0
* CALM HOURS (=1) FOR DAY 193 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 194 *	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 195 *	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 196 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
* CALM HOURS (=1) FOR DAY 197 *	0	0	1	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	1	1	
* CALM HOURS (=1) FOR DAY 198 *	0	0	1	1	1	0	1	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 199 *	0	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 200 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 201 *	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 203 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	
* CALM HOURS (=1) FOR DAY 204 *	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 205 *	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 206 *	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
* CALM HOURS (=1) FOR DAY 207 *	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 209 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	
* CALM HOURS (=1) FOR DAY 210 *	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 211 *	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
* CALM HOURS (=1) FOR DAY 212 *	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
* CALM HOURS (=1) FOR DAY 214 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 215 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
* CALM HOURS (=1) FOR DAY 216 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 217 *	0	1	1	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 219 *	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0		
* CALM HOURS (=1) FOR DAY 220 *	1	1	0	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
* CALM HOURS (=1) FOR DAY 221 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

* CALM HOURS (=1) FOR DAY 222 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 223 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 224 *	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 225 *	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 226 *	0	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 227 *	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 228 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 229 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 231 *	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 232 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 234 *	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 236 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 237 *	1	0	0	1	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 238 *	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 239 *	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 241 *	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 242 *	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 243 *	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 244 *	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 245 *	0	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 246 *	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0
* CALM HOURS (=1) FOR DAY 247 *	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 248 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 249 *	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 250 *	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 251 *	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 252 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 253 *	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	1	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 254 *	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 256 *	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 257 *	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
* CALM HOURS (=1) FOR DAY 258 *	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 259 *	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 260 *	0	0	0	1	1	1	1	1	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 261 *	0	1	0	0	0	1	1	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 263 *	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 264 *	1	1	1	1	1	1	0	0	1	1	0	1	0	0	0	0	0	1	0	1	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 265 *	1	1	1	1	1	1	0	1	1	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 269 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 270 *	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	1	0	1	1	0	1	1
* CALM HOURS (=1) FOR DAY 271 *	1	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 272 *	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 273 *	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

1

MAX 50
1-HR
SCROUPS 1

*** WHITMOYER INC. 1987 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y (METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y (METERS) OR DIRECTION (DEGREES)
1	.00001	13	199	-150.0	-250.0	26	.00001	11	198	-100.0	-250.0
2	.00001	12	208	-150.0	-250.0	27	.00001	12	233	-150.0	-200.0
3	.00001	11	211	-150.0	-250.0	28	.00001	13	199	-200.0	-250.0
4	.00001	12	233	-150.0	-250.0	29	.00001	12	199	50.0	-300.0
5	.00001	12	199	.0	-300.0	30	.00001	12	208	-200.0	-250.0
6	.00001	11	198	-150.0	-250.0	31	.00001	11	211	-200.0	-250.0
7	.00001	12	223	50.0	-300.0	32	.00001	13	199	-150.0	-200.0
8	.00001	12	223	50.0	-250.0	33	.00001	13	211	-150.0	-100.0
9	.00001	12	223	100.0	-300.0	34	.00001	12	223	100.0	-250.0
10	.00001	13	211	-200.0	-250.0	35	.00001	12	233	-200.0	-300.0
11	.00001	13	211	-200.0	-200.0	36	.00001	12	208	-150.0	-200.0
12	.00001	12	199	.0	-250.0	37	.00001	11	194	-250.0	-100.0
13	.00001	11	198	-150.0	-300.0	38	.00001	11	211	-150.0	-200.0
14	.00001	11	210	-100.0	-300.0	39	.00001	11	210	-50.0	-300.0
15	.00001	11	194	-300.0	-100.0	40	.00001	13	199	-200.0	-300.0
16	.00001	12	199	.0	-350.0	41	.00001	12	211	300.0	-150.0
17	.00001	11	208	200.0	-250.0	42	.00001	12	208	-200.0	-300.0
18	.00001	13	199	-150.0	-300.0	43	.00001	11	205	300.0	-150.0
19	.00001	12	208	-150.0	-300.0	44	.00001	11	211	-200.0	-300.0
20	.00001	11	211	-150.0	-300.0	45	.00001	12	223	100.0	-350.0
21	.00001	11	193	250.0	-200.0	46	.00001	12	211	250.0	-150.0
22	.00001	12	223	-200.0	-250.0	47	.00001	11	194	-300.0	-150.0
23	.00001	12	233	-150.0	-300.0	48	.00001	12	223	100.0	-350.0
24	.00001	13	211	-250.0	-250.0	49	.00001	11	210	-100.0	-350.0
25	.00001	12	190	300.0	-150.0	50	.00001	11	198	-200.0	-300.0

RUN ENDED ON 09-06-90 AT 09:28:50

ISCST - VERSION 3.4 (DATED 88348)

IBM-PC VERSION (2.00)
(C) COPYRIGHT 1988. TRINITY CONSULTANTS, INC.
SERIAL NUMBER 6891 SOLD TO NUS CORPORATION
RUN BEGAN ON 09-04-90 AT 11:49:06

*** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-MCT SPOT-HOURLY ***

CALCULATE (CONCENTRATION=1,DEPOSITION=2)	ISW(1) :	2
RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)	ISW(2) :	3
DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)	ISW(3) :	1
TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)	ISW(4) :	1
CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)	ISW(5) :	0
LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)	ISW(6) :	1
COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)		
WITH THE FOLLOWING TIME PERIODS:		
HOURLY (YES=1,NO=0)	ISW(7) :	1
2-HOUR (YES=1,NO=0)	ISW(8) :	0
3-HOUR (YES=1,NO=0)	ISW(9) :	0
4-HOUR (YES=1,NO=0)	ISW(10) :	0
6-HOUR (YES=1,NO=0)	ISW(11) :	0
8-HOUR (YES=1,NO=0)	ISW(12) :	0
12-HOUR (YES=1,NO=0)	ISW(13) :	0
24-HOUR (YES=1,NO=0)	ISW(14) :	0
PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)	ISW(15) :	0
PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE		
SPECIFIED BY ISW(7) THROUGH ISW(14):		
DAILY TABLES (YES=1,NO=0)	ISW(16) :	0
HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)	ISW(17) :	0
MAXIMUM 50 TABLES (YES=1,NO=0)	ISW(18) :	1
METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)	ISW(19) :	1
RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3)	ISW(20) :	0
WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(21) :	1
VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)	ISW(22) :	1
SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)	ISW(23) :	0
PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)	ISW(24) :	1
PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)	ISW(25) :	2
PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)	ISW(26) :	1
CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)	ISW(27) :	1
REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)	ISW(28) :	1
TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)	ISW(29) :	2
DEBUG OPTION CHOSEN (YES=1,NO=2)	ISW(30) :	2
ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)	ISW(31) :	0
NUMBER OF INPUT SOURCES	NSOURC :	1
NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)	NGROUP :	0
TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)	IPERD :	0
NUMBER OF X (RANGE) GRID VALUES	NXPNTS :	0
NUMBER OF Y (THETA) GRID VALUES	NYPNTS :	0
NUMBER OF DISCRETE RECEPTORS	NXNYPT :	301

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SOURCE EMISSION RATE UNITS CONVERSION FACTOR                      TK =.10000E-01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED              ZR =  10.00  METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA                      IMET =    9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION           DECAY =0.000000E+00
SURFACE STATION NO.                                              ISS = 14751
YEAR OF SURFACE DATA                                             ISY = 88
UPPER AIR STATION NO.                                            IUS = 93734
YEAR OF UPPER AIR DATA                                           IUY = 88
ALLOCATED DATA STORAGE                                         LIMIT = 43500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN                     MIMIT =  2294 WORDS

            *** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

                   *** METEOROLOGICAL DAYS TO BE PROCESSED ***
                                    (IF=1)

 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
 1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0 0 0 0 0
 0 0 0 0 0 0 0 0 0 0  0 0 0 0 0 0

            *** 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
    D       .00000E+00  .00000E+00  .00000E+00  .00000E+00  .00000E+00
    E       .20000E-01  .20000E-01  .20000E-01  .20000E-01  .20000E-01
```

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

(-400.0,	-100.0),	(-400.0,	-150.0),	(-400.0,	-200.0),	(-400.0,	-250.0),	(-400.0,	-300.0),
(-400.0,	-350.0),	(-400.0,	-400.0),	(-350.0,	-100.0),	(-350.0,	-150.0),	(-350.0,	-200.0),
(-350.0,	-250.0),	(-350.0,	-300.0),	(-350.0,	-350.0),	(-350.0,	-400.0),	(-300.0,	-100.0),
(-300.0,	-150.0),	(-300.0,	-200.0),	(-300.0,	-250.0),	(-300.0,	-300.0),	(-300.0,	-350.0),
(-300.0,	-400.0),	(-250.0,	-100.0),	(-250.0,	-150.0),	(-250.0,	-200.0),	(-250.0,	-250.0),
(-250.0,	-300.0),	(-250.0,	-350.0),	(-250.0,	-400.0),	(-200.0,	-100.0),	(-200.0,	-150.0),
(-200.0,	-200.0),	(-200.0,	-250.0),	(-200.0,	-300.0),	(-200.0,	-350.0),	(-200.0,	-400.0),
(-150.0,	-100.0),	(-150.0,	-150.0),	(-150.0,	-200.0),	(-150.0,	-250.0),	(-150.0,	-300.0),
(-150.0,	-350.0),	(-150.0,	-400.0),	(-100.0,	-100.0),	(-100.0,	-150.0),	(-100.0,	-200.0),
(-100.0,	-250.0),	(-100.0,	-300.0),	(-100.0,	-350.0),	(-100.0,	-400.0),	(350.0,	-100.0),
(350.0,	-150.0),	(350.0,	-200.0),	(350.0,	-250.0),	(350.0,	-300.0),	(350.0,	-350.0),
(350.0,	-400.0),	(400.0,	-100.0),	(400.0,	-150.0),	(400.0,	-200.0),	(400.0,	-250.0),
(400.0,	-300.0),	(400.0,	-350.0),	(400.0,	-400.0),	(450.0,	-100.0),	(450.0,	-150.0),
(450.0,	-200.0),	(450.0,	-250.0),	(450.0,	-300.0),	(450.0,	-350.0),	(450.0,	-400.0),
(500.0,	-100.0),	(500.0,	-150.0),	(500.0,	-200.0),	(500.0,	-250.0),	(500.0,	-300.0),
(500.0,	-350.0),	(500.0,	-400.0),	(550.0,	-100.0),	(550.0,	-150.0),	(550.0,	-200.0),
(550.0,	-250.0),	(550.0,	-300.0),	(550.0,	-350.0),	(550.0,	-400.0),	(600.0,	-100.0),
(600.0,	-150.0),	(600.0,	-200.0),	(600.0,	-250.0),	(600.0,	-300.0),	(600.0,	-350.0),
(600.0,	-400.0),	(650.0,	-100.0),	(650.0,	-150.0),	(650.0,	-200.0),	(650.0,	-250.0),
(650.0,	-300.0),	(650.0,	-350.0),	(650.0,	-400.0),	(100.0,	-350.0),	(100.0,	-400.0),
(100.0,	-450.0),	(100.0,	-500.0),	(100.0,	-550.0),	(100.0,	-600.0),	(100.0,	-650.0),
(150.0,	-350.0),	(150.0,	-400.0),	(150.0,	-450.0),	(150.0,	-500.0),	(150.0,	-550.0),
(150.0,	-600.0),	(150.0,	-650.0),	(200.0,	-350.0),	(200.0,	-400.0),	(200.0,	-450.0),
(200.0,	-500.0),	(200.0,	-550.0),	(200.0,	-600.0),	(200.0,	-650.0),	(250.0,	-350.0),
(250.0,	-400.0),	(250.0,	-450.0),	(250.0,	-500.0),	(250.0,	-550.0),	(250.0,	-600.0),
(250.0,	-650.0),	(300.0,	-350.0),	(300.0,	-400.0),	(300.0,	-450.0),	(300.0,	-500.0),
(300.0,	-550.0),	(300.0,	-600.0),	(300.0,	-650.0),	(350.0,	-350.0),	(350.0,	-400.0),
(350.0,	-450.0),	(350.0,	-500.0),	(350.0,	-550.0),	(350.0,	-600.0),	(350.0,	-650.0),
(400.0,	-350.0),	(400.0,	-400.0),	(400.0,	-450.0),	(400.0,	-500.0),	(400.0,	-550.0),
(400.0,	-600.0),	(400.0,	-650.0),	(600.0,	-350.0),	(600.0,	-400.0),	(600.0,	-450.0),
(600.0,	-500.0),	(600.0,	-550.0),	(600.0,	-600.0),	(600.0,	-650.0),	(650.0,	-350.0),
(650.0,	-400.0),	(650.0,	-450.0),	(650.0,	-500.0),	(650.0,	-550.0),	(650.0,	-600.0),
(650.0,	-650.0),	(700.0,	-350.0),	(700.0,	-400.0),	(700.0,	-450.0),	(700.0,	-500.0),
(700.0,	-550.0),	(700.0,	-600.0),	(700.0,	-650.0),	(750.0,	-350.0),	(750.0,	-400.0),
(750.0,	-450.0),	(750.0,	-500.0),	(750.0,	-550.0),	(750.0,	-600.0),	(750.0,	-650.0),
(800.0,	-350.0),	(800.0,	-400.0),	(800.0,	-450.0),	(800.0,	-500.0),	(800.0,	-550.0),
(800.0,	-600.0),	(800.0,	-650.0),	(850.0,	-350.0),	(850.0,	-400.0),	(850.0,	-450.0),
(850.0,	-500.0),	(850.0,	-550.0),	(850.0,	-600.0),	(850.0,	-650.0),	(900.0,	-350.0),
(900.0,	-400.0),	(900.0,	-450.0),	(900.0,	-500.0),	(900.0,	-550.0),	(900.0,	-600.0),
(900.0,	-650.0),	(200.0,	-100.0),	(200.0,	-150.0),	(200.0,	-200.0),	(200.0,	-250.0),
(200.0,	-300.0),	(200.0,	-350.0),	(200.0,	-400.0),	(250.0,	-100.0),	(250.0,	-150.0),
(250.0,	-200.0),	(250.0,	-250.0),	(250.0,	-300.0),	(250.0,	-350.0),	(250.0,	-400.0),
(300.0,	-100.0),	(300.0,	-150.0),	(300.0,	-200.0),	(300.0,	-250.0),	(300.0	-300.0)
(300.0,	-350.0),	(300.0,	-400.0),	(350.0,	-100.0),	(350.0,	-150.0),		
(350.0,	-250.0),	(350.0,	-300.0),	(350.0,	-350.0),	(350.0,	-400.0),		
(400.0,	-150.0),	(400.0,	-200.0),	(400.0,	-250.0),	(400.0,	-300.0),		

(400.0,	-400.0),	(-50.0,	-100.0),	(-50.0,	-150.0),	(-50.0,	-200.0),	(-50.0,	-250.0),
(-50.0,	-300.0),	(-50.0,	-350.0),	(-50.0,	-400.0),	(0.0,	-100.0),	(0.0,	-150.0),
(0.0,	-200.0),	(0.0,	-250.0),	(0.0,	-300.0),	(0.0,	-350.0),	(0.0,	-400.0),
(50.0,	-100.0),	(50.0,	-150.0),	(50.0,	-200.0),	(50.0,	-250.0),	(50.0,	-300.0),
(50.0,	-350.0),	(50.0,	-400.0),	(100.0,	-100.0),	(100.0,	-150.0),	(100.0,	-200.0),
(100.0,	-250.0),	(100.0,	-300.0),	(100.0,	-350.0),	(100.0,	-400.0),	(150.0,	-100.0),
(150.0,	-150.0),	(150.0,	-200.0),	(150.0,	-250.0),	(150.0,	-300.0),	(150.0,	-350.0),
(150.0,	-400.0),	(950.0,	-350.0),	(950.0,	-400.0),	(950.0,	-450.0),	(950.0,	-500.0),
(950.0,	-550.0),	(950.0,	-600.0),	(950.0,	-650.0),	(1000.0,	-550.0),	(1000.0,	-600.0),
(1000.0,	-650.0),	(1000.0,	-500.0),	(1000.0,	-550.0),	(1000.0,	-600.0),	(1000.0,	-650.0),
(1050.0,	-350.0),	(1050.0,	-400.0),	(1050.0,	-450.0),	(1050.0,	-500.0),	(1050.0,	-550.0),
(1050.0,	-600.0),	(1050.0,	-650.0),	(1100.0,	-350.0),	(1100.0,	-400.0),	(1100.0,	-450.0),
(1100.0,	-500.0),	(1100.0,	-550.0),	(1100.0,	-600.0),	(1100.0,	-650.0),	(1150.0,	-350.0),
(1150.0,	-400.0),	(1150.0,	-450.0),	(1150.0,	-500.0),	(1150.0,	-550.0),	(1150.0,	-600.0),
(1150.0,	-650.0),	(							

*** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30429	-400.0	-150.0	146.30429	-400.0	-200.0	149.35229
-400.0	-250.0	149.35229	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30429	-350.0	-150.0	146.30429
-350.0	-200.0	149.35229	-350.0	-250.0	149.35229	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30429
-300.0	-150.0	149.35229	-300.0	-200.0	149.35229	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30429	-250.0	-150.0	149.35229	-250.0	-200.0	149.35229
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30429	-200.0	-150.0	149.35229
-200.0	-200.0	149.35229	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30429
-150.0	-150.0	149.35229	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30429	-100.0	-150.0	149.35229	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	146.30429	400.0	-250.0	146.30429
400.0	-300.0	146.30429	400.0	-350.0	146.30429	400.0	-400.0	146.30429
450.0	-100.0	143.25629	450.0	-150.0	146.30429	450.0	-200.0	146.30429
450.0	-250.0	146.30429	450.0	-300.0	146.30429	450.0	[illegible]	[illegible]
450.0	-400.0	146.30429	500.0	-100.0	143.25629	500.0		
500.0	-200.0	146.30429	500.0	-250.0	146.30429	500.0		
500.0	-350.0	143.25629	500.0	-400.0	146.30429	550.0	[illegible]	146.30429
550.0	-150.0	146.30429	550.0	-200.0	146.30429	550.0	-250.0	146.30429

550.0	-300.0	146.30429	550.0	-350.0	146.30429	550.0	-400.0	146.30429
600.0	-100.0	146.30429	600.0	-150.0	146.30429	600.0	-200.0	146.30429
600.0	-250.0	146.30429	600.0	-300.0	146.30429	600.0	-350.0	146.30429
600.0	-400.0	146.30429	650.0	-100.0	146.30429	650.0	-150.0	146.30429
650.0	-200.0	146.30429	650.0	-250.0	146.30429	650.0	-300.0	146.30429
650.0	-350.0	146.30429	650.0	-400.0	146.30429	100.0	-250.0	149.35229
100.0	-400.0	149.35229	100.0	-450.0	149.35229	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49631	100.0	-650.0	158.49631
150.0	-350.0	149.35229	150.0	-400.0	149.35229	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30429	200.0	-400.0	149.35229

*** WHITMOYER INC.1986 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35229
250.0	-400.0	149.35229	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	158.49631
300.0	-350.0	149.35229	300.0	-400.0	149.35229	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	158.49631
300.0	-650.0	152.40030	350.0	-350.0	149.35229	350.0	-400.0	149.35229
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30429
400.0	-400.0	149.35229	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25629	600.0	-400.0	143.25629	600.0	-450.0	143.25629
600.0	-500.0	143.25629	600.0	-550.0	143.25629	600.0	-600.0	143.25629
600.0	-650.0	143.25629	650.0	-350.0	143.25629	650.0	-400.0	143.25629
650.0	-450.0	143.25629	650.0	-500.0	146.30429	650.0	-550.0	143.25629
650.0	-600.0	143.25629	650.0	-650.0	143.25629	700.0	-350.0	143.25629
700.0	-400.0	146.30429	700.0	-450.0	146.30429	700.0	-500.0	146.30429
700.0	-550.0	146.30429	700.0	-600.0	146.30429	700.0	-650.0	146.30429
750.0	-350.0	143.25629	750.0	-400.0	146.30429	750.0	-450.0	149.35229
750.0	-500.0	149.35229	750.0	-550.0	149.35229	750.0	-600.0	149.35229
750.0	-650.0	149.35229	800.0	-350.0	146.30429	800.0	-400.0	146.30429
800.0	-450.0	149.35229	800.0	-500.0	149.35229	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35229	850.0	-350.0	146.30429
850.0	-400.0	146.30429	850.0	-450.0	149.35229	850.0	-500.0	149.35229
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30429	900.0	-400.0	146.30429	900.0	-450.0	149.35229
900.0	-500.0	149.35229	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25629	200.0	-150.0	146.30429
200.0	-200.0	146.30429	200.0	-250.0	149.35229	200.0	-	
200.0	-350.0	146.30429	200.0	-400.0	149.35229	250.0	-	
250.0	-150.0	143.25629	250.0	-200.0	146.30429	250.0	-	

250.0	-300.0	146.30429	250.0	-350.0	146.30429	250.0	-400.0	149.35229
300.0	-100.0	143.25629	300.0	-150.0	143.25629	300.0	-200.0	143.25629
300.0	-250.0	143.25629	300.0	-300.0	146.30429	300.0	-350.0	149.35229
300.0	-400.0	149.35229	350.0	-100.0	143.25629	350.0	-150.0	143.25629
350.0	-200.0	143.25629	350.0	-250.0	146.30429	350.0	-300.0	146.30429
350.0	-350.0	149.35229	350.0	-400.0	149.35229	400.0	-100.0	143.25629
400.0	-150.0	143.25629	400.0	-200.0	143.25629	400.0	-250.0	146.30429

*** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
400.0	-300.0	149.35229	400.0	-350.0	146.30429	400.0	-400.0	149.35229
-50.0	-100.0	149.35229	-50.0	-150.0	149.35229	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	0.0	-100.0	149.35229	0.0	-150.0	149.35229
0.0	-200.0	152.40030	0.0	-250.0	152.40030	0.0	-300.0	152.40030
0.0	-350.0	155.44830	0.0	-400.0	155.44830	50.0	-100.0	149.35229
50.0	-150.0	149.35229	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	152.40030
100.0	-100.0	149.35229	100.0	-150.0	149.35229	100.0	-200.0	149.35229
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	152.40030
100.0	-400.0	149.35229	150.0	-100.0	149.35229	150.0	-150.0	146.30429
150.0	-200.0	149.35229	150.0	-250.0	149.35229	150.0	-300.0	149.35229
150.0	-350.0	149.35229	150.0	-400.0	149.35229	950.0	-350.0	146.30429
950.0	-400.0	146.30429	950.0	-450.0	149.35229	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30429	1000.0	-400.0	149.35229	1000.0	-450.0	149.35229
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30429	1050.0	-400.0	146.30429
1050.0	-450.0	149.35229	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30429
1100.0	-400.0	146.30429	1100.0	-450.0	149.35229	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30429	1150.0	-450.0	146.30429
1150.0	-500.0	149.35229	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE DATA ***

SOURCE	P A R T.	EMISSION RATE TYPE=0,1 (GRAMS/HOUR) TYPE=2 NUMBER (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	TYPE=0	.....

NUMBER	E	E	CATS.	PER METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	METERS.
1	0	0	1	0.22680E+02	0.0	0.0	146.3	65.00	244.50	3.55	1.20	0.00	0.00

*** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER : 1 ***

MASS FRACTION :
1.00000.

SETTLING VELOCITY(METERS/SEC) :
0.0004.

SURFACE REFLECTION COEFFICIENT :
0.92000.

* CALM HOURS (=1) FOR DAY 92 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 93 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 94 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 96 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
* CALM HOURS (=1) FOR DAY 98 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	
* CALM HOURS (=1) FOR DAY 99 *	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 103 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
* CALM HOURS (=1) FOR DAY 104 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 108 *	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 109 *	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 110 *	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 111 *	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 112 *	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 113 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
* CALM HOURS (=1) FOR DAY 115 *	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 116 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
* CALM HOURS (=1) FOR DAY 117 *	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 118 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 119 *	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 122 *	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
* CALM HOURS (=1) FOR DAY 123 *	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	
* CALM HOURS (=1) FOR DAY 124 *	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1		
* CALM HOURS (=1) FOR DAY 126 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
* CALM HOURS (=1) FOR DAY 129 *	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 132 *	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 133 *	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 134 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	
* CALM HOURS (=1) FOR DAY 135 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	
* CALM HOURS (=1) FOR DAY 136 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
* CALM HOURS (=1) FOR DAY 137 *	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1	
* CALM HOURS (=1) FOR DAY 138 *	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	^	
* CALM HOURS (=1) FOR DAY 139 *	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
* CALM HOURS (=1) FOR DAY 140 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
* CALM HOURS (=1) FOR DAY 141 *	0	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	.	

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* CALM HOURS (=1) FOR DAY 142 * 1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1
* CALM HOURS (=1) FOR DAY 143 * 1  1  1  1  1  1  1  1  1  0  0  1  0  0  0  0  1  1  1  1  1  1  1  1
* CALM HOURS (=1) FOR DAY 144 * 1  1  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1
* CALM HOURS (=1) FOR DAY 145 * 1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
* CALM HOURS (=1) FOR DAY 147 * 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1
* CALM HOURS (=1) FOR DAY 148 * 1  1  1  0  0  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  1
* CALM HOURS (=1) FOR DAY 149 * 1  1  1  0  1  1  1  1  0  0  0  1  0  0  0  0  0  0  0  0  0  1  0  1
* CALM HOURS (=1) FOR DAY 150 * 1  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  0  0
* CALM HOURS (=1) FOR DAY 151 * 1  1  0  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0
* CALM HOURS (=1) FOR DAY 152 * 1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0
* CALM HOURS (=1) FOR DAY 155 * 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  0
* CALM HOURS (=1) FOR DAY 156 * 1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
* CALM HOURS (=1) FOR DAY 158 * 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0
* CALM HOURS (=1) FOR DAY 159 * 0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  0  1  1  0  0  0
* CALM HOURS (=1) FOR DAY 160 * 0  0  0  1  0  0  0  0  0  0  1  1  0  0  1  0  0  0  0  1  1  1  1  0
* CALM HOURS (=1) FOR DAY 162 * 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  0
* CALM HOURS (=1) FOR DAY 165 * 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1
* CALM HOURS (=1) FOR DAY 166 * 1  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
* CALM HOURS (=1) FOR DAY 167 * 0  0  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0
* CALM HOURS (=1) FOR DAY 168 * 1  1  1  1  0  1  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  1  1  0  0
* CALM HOURS (=1) FOR DAY 169 * 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  0  1
* CALM HOURS (=1) FOR DAY 170 * 1  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1
* CALM HOURS (=1) FOR DAY 171 * 1  0  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  1
* CALM HOURS (=1) FOR DAY 172 * 1  1  0  0  1  1  0  0  0  0  1  1  0  0  0  0  0  0  0  1  0  0  0  0  0
* CALM HOURS (=1) FOR DAY 173 * 0  0  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  1  0  0
* CALM HOURS (=1) FOR DAY 174 * 0  1  1  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
* CALM HOURS (=1) FOR DAY 176 * 0  0  0  1  1  1  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0
* CALM HOURS (=1) FOR DAY 178 * 0  0  0  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
* CALM HOURS (=1) FOR DAY 179 * 0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  0  0
* CALM HOURS (=1) FOR DAY 182 * 1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
1
```

MAX 50
1-HR
OURS 1

*** WHITMOYER INC.1988 2ND QTR-ARSENIC DEP UPPER-HOT SPOT-HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y(METERS) OR DIRECTION (DEGREES)
1	0.00001	12	154	-100.0	-300.0	26	0.00001	12	165	50.0	-250.0
2	0.00001	13	151	50.0	-300.0	27	0.00001	14	166	-250.0	-300.0
3	0.00001	12	176	100.0	-250.0	28	0.00001	11	144	-200.0	-300.0
4	0.00001	11	144	-200.0	-250.0	29	0.00001	14	166	-300.0	-300.0
5	0.00001	11	144	-150.0	-250.0	30	0.00001	12	165		
6	0.00001	12	165	100.0	-300.0	31	0.00001	11	124		
7	0.00001	12	154	-100.0	-250.0	32	0.00001	12	144		

8	0.00001	12	144	-200.0	-200.0	33	0.00001	12	154	-100.0	-350.0
9	0.00001	11	165	150.0	-250.0	34	0.00001	12	165	100.0	-250.0
10	0.00001	12	144	-200.0	-250.0	35	0.00001	11	151	200.0	-200.0
11	0.00001	11	165	150.0	-300.0	36	0.00001	11	149	300.0	-100.0
12	0.00001	11	151	250.0	-200.0	37	0.00001	12	165	100.0	-350.0
13	0.00001	12	176	100.0	-300.0	38	0.00001	12	176	150.0	-250.0
14	0.00001	11	165	100.0	-250.0	39	0.00001	14	166	-300.0	-150.0
15	0.00001	12	165	50.0	-300.0	40	0.00001	11	148	250.0	-200.0
16	0.00001	12	176	150.0	-300.0	41	0.00001	12	154	-150.0	-300.0
17	0.00001	11	144	-150.0	-200.0	42	0.00001	11	148	350.0	-150.0
18	0.00001	14	166	-250.0	-150.0	43	0.00001	11	148	300.0	-200.0
19	0.00001	13	151	50.0	-250.0	44	0.00001	12	144	-150.0	-200.0
20	0.00001	12	144	-250.0	-250.0	45	0.00001	11	151	250.0	-250.0
21	0.00001	11	124	-200.0	-250.0	46	0.00001	14	172	300.0	-100.0
22	0.00001	14	165	300.0	-150.0	47	0.00001	11	149	350.0	-100.0
23	0.00001	14	172	300.0	-150.0	48	0.00001	11	149	350.0	-100.0
24	0.00001	13	151	50.0	-350.0	49	0.00001	11	165	100.0	-300.0
25	0.00001	11	124	-150.0	-250.0	50	0.00001	11	148	300.0	-150.0

RUN ENDED ON 09-04-90 AT 11:53:17

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   ISCST - VERSION 3.4 (DATED 88348)

     IBM-PC VERSION (2.01)
     (C) COPYRIGHT 1988, TRINITY CONSULTANTS, INC.
     SERIAL NUMBER 5598 SOLD TO NUS CORPORATION
     RUN BEGAN ON 09-06-90 AT 09:36:58


          *** WHITMOYER INC. 1988 SRG GTR-ARSENIC DEP URB- POT SPOT/HOURLY ***

 CALCULATE (CONCENTRATION=1,DEPOSITION=2)                          ISW(1) :   2
 RECEPTOR GRID SYSTEM (RECTANGULAR=1 OR 3, POLAR=2 OR 4)           ISW(2) :   3
 DISCRETE RECEPTOR SYSTEM (RECTANGULAR=1,POLAR=2)                  ISW(3) :   1
 TERRAIN ELEVATIONS ARE READ (YES=1,NO=0)                          ISW(4) :   1
 CALCULATIONS ARE WRITTEN TO TAPE (YES=1,NO=0)                     ISW(5) :   0
 LIST ALL INPUT DATA (NO=0,YES=1,MET DATA ALSO=2)                  ISW(6) :   1

 COMPUTE AVERAGE CONCENTRATION (OR TOTAL DEPOSITION)
 WITH THE FOLLOWING TIME PERIODS:
   HOURLY (YES=1,NO=0)                                             ISW(7) :   1
   2-HOUR (YES=1,NO=0)                                             ISW(8) :   0
   3-HOUR (YES=1,NO=0)                                             ISW(9) :   0
   4-HOUR (YES=1,NO=0)                                             ISW(10) :  0
   6-HOUR (YES=1,NO=0)                                             ISW(11) :  0
   8-HOUR (YES=1,NO=0)                                             ISW(12) :  0
   12-HOUR (YES=1,NO=0)                                            ISW(13) :  0
   24-HOUR (YES=1,NO=0)                                            ISW(14) :  0
 PRINT 'N'-DAY TABLE(S) (YES=1,NO=0)                               ISW(15) :  0

 PRINT THE FOLLOWING TYPES OF TABLES WHOSE TIME PERIODS ARE
 SPECIFIED BY ISW(7) THROUGH ISW(14):
   DAILY TABLES (YES=1,NO=0)                                       ISW(16) :  0
   HIGHEST & SECOND HIGHEST TABLES (YES=1,NO=0)                    ISW(17) :  0
   MAXIMUM 50 TABLES (YES=1,NO=0)                                  ISW(18) :  1
 METEOROLOGICAL DATA INPUT METHOD (PRE-PROCESSED=1,CARD=2)         ISW(19) :  1
 RURAL-URBAN OPTION (RU.=0,UR. MODE 1=1,UR. MODE 2=2,UR. MODE 3=3) ISW(20) :  0
 WIND PROFILE EXPONENT VALUES (DEFAULTS=1,USER ENTERS=2,3)         ISW(21) :  1
 VERTICAL POT. TEMP. GRADIENT VALUES (DEFAULTS=1,USER ENTERS=2,3)  ISW(22) :  1
 SCALE EMISSION RATES FOR ALL SOURCES (NO=0,YES>0)                 ISW(23) :  0
 PROGRAM CALCULATES FINAL PLUME RISE ONLY (YES=1,NO=2)             ISW(24) :  1
 PROGRAM ADJUSTS ALL STACK HEIGHTS FOR DOWNWASH (YES=2,NO=1)       ISW(25) :  2
 PROGRAM USES BUOYANCY INDUCED DISPERSION (YES=1,NO=2)             ISW(26) :  1
 CONCENTRATIONS DURING CALM PERIODS SET = 0 (YES=1,NO=2)           ISW(27) :  1
 REG. DEFAULT OPTION CHOSEN (YES=1,NO=2)                           ISW(28) :  1
 TYPE OF POLLUTANT TO BE MODELLED (1=SO2,2=OTHER)                  ISW(29) :  2
 DEBUG OPTION CHOSEN (YES=1,NO=2)                                  ISW(30) :  2
 ABOVE GROUND (FLAGPOLE) RECEPTORS USED (YES=1,NO=0)               ISW(31) :  0

 NUMBER OF INPUT SOURCES                                           NSOURC :   1
 NUMBER OF SOURCE GROUPS (=0,ALL SOURCES)                          NGROUP :   0
 TIME PERIOD INTERVAL TO BE PRINTED (=0,ALL INTERVALS)              IPERD :   0
 NUMBER OF X (RANGE) GRID VALUES                                   NXPNTS :   0
 NUMBER OF Y (THETA) GRID VALUES                                   NYPNTS :   0
 NUMBER OF DISCRETE RECEPTORS                                      NXNYPT : 301
```

SOURCE EMISSION RATE UNITS CONVERSION FACTOR	TK	= .10000E+01
HEIGHT ABOVE GROUND AT WHICH WIND SPEED WAS MEASURED	ZR	= 10.00 METERS
LOGICAL UNIT NUMBER OF METEOROLOGICAL DATA	IMET	= 9
DECAY COEFFICIENT FOR PHYSICAL OR CHEMICAL DEPLETION	DECAY	= .000000E+00
SURFACE STATION NO.	ISS	= 14751
YEAR OF SURFACE DATA	ISY	= 88
UPPER AIR STATION NO.	IUS	= 93734
YEAR OF UPPER AIR DATA	IUY	= 88
ALLOCATED DATA STORAGE	LIMIT	= 41500 WORDS
REQUIRED DATA STORAGE FOR THIS PROBLEM RUN	MIMIT	= 2294 WORDS

*** WHITMOYER INC. 1988 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

*** METEOROLOGICAL DAYS TO BE PROCESSED ***
(IF=1)

```
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0   0 0 0 0 0 0
```

*** 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	
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	

F .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01 .35000E-01

*** WHITMOYER INC. 1986 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

*** X,Y COORDINATES OF DISCRETE RECEPTORS ***
(METERS)

-400.0,	-100.0),	-400.0,	-150.0),	-400.0,	-200.0),	-400.0,	-250.0),	-400.0,	-300.0),
-400.0,	-350.0),	-400.0,	-400.0),	-350.0,	-100.0),	-350.0,	-150.0),	-350.0,	-200.0),
-350.0,	-250.0),	-350.0,	-300.0),	-350.0,	-350.0),	-350.0,	-400.0),	-300.0,	-100.0),
-300.0,	-150.0),	-300.0,	-200.0),	-300.0,	-250.0),	-300.0,	-300.0),	-300.0,	-350.0),
-300.0,	-400.0),	-250.0,	-100.0),	-250.0,	-150.0),	-250.0,	-200.0),	-250.0,	-250.0),
-250.0,	-300.0),	-250.0,	-350.0),	-250.0,	-400.0),	-200.0,	-100.0),	-200.0,	-150.0),
-200.0,	-200.0),	-200.0,	-250.0),	-200.0,	-300.0),	-200.0,	-350.0),	-200.0,	-400.0),
-150.0,	-100.0),	-150.0,	-150.0),	-150.0,	-200.0),	-150.0,	-250.0),	-150.0,	-300.0),
-150.0,	-350.0),	-150.0,	-400.0),	-100.0,	-100.0),	-100.0,	-150.0),	-100.0,	-200.0),
-100.0,	-250.0),	-100.0,	-300.0),	-100.0,	-350.0),	-100.0,	-400.0),	350.0,	-100.0),
350.0,	-150.0),	350.0,	-200.0),	350.0,	-250.0),	350.0,	-300.0),	350.0,	-350.0),
350.0,	-400.0),	400.0,	-100.0),	400.0,	-150.0),	400.0,	-200.0),	400.0,	-250.0),
400.0,	-300.0),	400.0,	-350.0),	400.0,	-400.0),	450.0,	-100.0),	450.0,	-150.0),
450.0,	-200.0),	450.0,	-250.0),	450.0,	-300.0),	450.0,	-350.0),	450.0,	-400.0),
500.0,	-100.0),	500.0,	-150.0),	500.0,	-200.0),	500.0,	-250.0),	500.0,	-300.0),
500.0,	-350.0),	500.0,	-400.0),	550.0,	-100.0),	550.0,	-150.0),	550.0,	-200.0),
550.0,	-250.0),	550.0,	-300.0),	550.0,	-350.0),	550.0,	-400.0),	600.0,	-100.0),
600.0,	-150.0),	600.0,	-200.0),	600.0,	-250.0),	600.0,	-300.0),	600.0,	-350.0),
600.0,	-400.0),	650.0,	-100.0),	650.0,	-150.0),	650.0,	-200.0),	650.0,	-250.0)
650.0,	-300.0),	650.0,	-350.0),	650.0,	-400.0),	100.0,	-350.0),	100.0,	-400.0)
100.0,	-450.0),	100.0,	-500.0),	100.0,	-550.0),	100.0,	-600.0),	100.0,	-650.0).
150.0,	-350.0),	150.0,	-400.0),	150.0,	-450.0),	150.0,	-500.0),	150.0,	-550.0).
150.0,	-600.0),	150.0,	-650.0).	200.0,	-350.0),	200.0,	-400.0),	200.0,	-450.0),
200.0,	-500.0),	200.0,	-550.0),	200.0,	-600.0),	200.0,	-650.0),	250.0,	-350.0).
250.0,	-400.0),	250.0,	-450.0),	250.0,	-500.0),	250.0,	-550.0),	250.0,	-600.0),
250.0,	-650.0),	300.0,	-350.0),	300.0,	-400.0),	300.0,	-450.0),	300.0,	-500.0).
300.0,	-550.0),	300.0,	-600.0).	300.0,	-650.0),	350.0,	-350.0),	350.0,	-400.0).
350.0,	-450.0),	350.0,	-500.0),	350.0,	-550.0),	350.0,	-600.0),	350.0,	-650.0).
400.0,	-350.0),	400.0,	-400.0),	400.0,	-450.0),	400.0,	-500.0),	400.0,	-550.0),
400.0,	-600.0),	400.0,	-650.0),	600.0,	-350.0),	600.0,	-400.0),	600.0,	-450.0).
600.0,	-500.0),	600.0,	-550.0),	600.0,	-600.0),	600.0,	-650.0),	650.0,	-350.0),
650.0,	-400.0),	650.0,	-450.0),	650.0,	-500.0),	650.0,	-550.0),	650.0,	-600.0),
650.0,	-650.0),	700.0,	-350.0),	700.0,	-400.0),	700.0,	-450.0),	700.0,	-500.0),
700.0,	-550.0),	700.0,	-600.0),	700.0,	-650.0),	750.0,	-350.0),	750.0,	-400.0),
750.0,	-450.0),	750.0,	-500.0),	750.0,	-550.0),	750.0,	-600.0),	750.0,	-650.0),
800.0,	-350.0),	800.0,	-400.0),	800.0,	-450.0),	800.0,	-500.0),	800.0,	-550.0),
800.0,	-600.0),	800.0,	-650.0),	850.0,	-350.0),	850.0,	-400.0),	850.0,	-450.0),
850.0,	-500.0),	850.0,	-550.0),	850.0,	-600.0),	850.0,	-650.0),	900.0,	-350.0),
900.0,	-400.0),	900.0,	-450.0),	900.0,	-500.0),	900.0,	-550.0),	900.0,	-600.0),
900.0,	-650.0),	200.0,	-100.0),	200.0,	-150.0),	200.0,	-200.0),	200.0,	-250.0),
200.0,	-300.0),	200.0,	-350.0),	200.0,	-400.0),	250.0,	-100.0),	250.0,	-150.0),
250.0,	-200.0),	250.0,	-250.0),	250.0,	-300.0),	250.0,	-350.0),	250.0,	-400.0),
300.0,	-100.0),	300.0,	-150.0),	300.0,	-200.0),	300.0,	-250.0),	300.0,	-300.0),
300.0,	-350.0),	300.0,	-400.0),	350.0,	-100.0),	350.0,	-150.0),		
350.0,	-250.0),	350.0,	-300.0),	350.0,	-350.0),	350.0,	-400.0),		
400.0,	-150.0),	400.0,	-200.0),	400.0,	-250.0),	400.0,	-300.0),	400.0,	-350.0),

(400.0,	-400.0),	(-50.0,	-100.0),	(-50.0,	-150.0),	(-50.0,	-200.0),	(-50.0,	-250.0),
(-50.0,	-300.0),	(-50.0,	-350.0),	(-50.0,	-400.0),	(.0,	-100.0),	(.0,	-150.0),
(.0,	-200.0),	(.0,	-250.0),	(.0,	-300.0),	(.0,	-350.0),	(.0,	-400.0),
(50.0,	-100.0),	(50.0,	-150.0),	(50.0,	-200.0),	(50.0,	-250.0),	(50.0,	-300.0),
(50.0,	-350.0),	(50.0,	-400.0),	(100.0,	-100.0),	(100.0,	-150.0),	(100.0,	-200.0),
(100.0,	-250.0),	(100.0,	-300.0),	(100.0,	-350.0),	(100.0,	-400.0),	(150.0,	-100.0),
(150.0,	-150.0),	(150.0,	-200.0),	(150.0,	-250.0),	(150.0,	-300.0),	(150.0,	-350.0),
(150.0,	-400.0),	(950.0,	-350.0),	(950.0,	-400.0),	(950.0,	-450.0),	(950.0,	-500.0),
(950.0,	-550.0),	(950.0,	-600.0),	(950.0,	-650.0),	(1000.0,	-350.0),	(1000.0,	-400.0),
(1000.0,	-450.0),	(1000.0,	-500.0),	(1000.0,	-550.0),	(1000.0,	-600.0),	(1000.0,	-650.0),
(1050.0,	-350.0),	(1050.0,	-400.0),	(1050.0,	-450.0),	(1050.0,	-500.0),	(1050.0,	-550.0),
(1050.0,	-600.0),	(1050.0,	-650.0),	(1100.0,	-350.0),	(1100.0,	-400.0),	(1100.0,	-450.0),
(1100.0,	-500.0),	(1100.0,	-550.0),	(1100.0,	-600.0),	(1100.0,	-650.0),	(1150.0,	-350.0),
(1150.0,	-400.0),	(1150.0,	-450.0),	(1150.0,	-500.0),	(1150.0,	-550.0),	(1150.0,	-600.0),
(1150.0,	-650.0),	(							

*** WHITMOYER INC. 1988 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
-400.0	-100.0	146.30430	-400.0	-150.0	146.30430	-400.0	-200.0	149.35230
-400.0	-250.0	149.35230	-400.0	-300.0	152.40030	-400.0	-350.0	152.40030
-400.0	-400.0	152.40030	-350.0	-100.0	146.30430	-350.0	-150.0	146.30430
-350.0	-200.0	149.35230	-350.0	-250.0	149.35230	-350.0	-300.0	152.40030
-350.0	-350.0	152.40030	-350.0	-400.0	152.40030	-300.0	-100.0	146.30430
-300.0	-150.0	149.35230	-300.0	-200.0	149.35230	-300.0	-250.0	152.40030
-300.0	-300.0	152.40030	-300.0	-350.0	152.40030	-300.0	-400.0	152.40030
-250.0	-100.0	146.30430	-250.0	-150.0	149.35230	-250.0	-200.0	149.35230
-250.0	-250.0	152.40030	-250.0	-300.0	152.40030	-250.0	-350.0	152.40030
-250.0	-400.0	152.40030	-200.0	-100.0	146.30430	-200.0	-150.0	149.35230
-200.0	-200.0	149.35230	-200.0	-250.0	152.40030	-200.0	-300.0	152.40030
-200.0	-350.0	152.40030	-200.0	-400.0	152.40030	-150.0	-100.0	146.30430
-150.0	-150.0	149.35230	-150.0	-200.0	152.40030	-150.0	-250.0	152.40030
-150.0	-300.0	152.40030	-150.0	-350.0	152.40030	-150.0	-400.0	155.44830
-100.0	-100.0	146.30430	-100.0	-150.0	149.35230	-100.0	-200.0	152.40030
-100.0	-250.0	152.40030	-100.0	-300.0	155.44830	-100.0	-350.0	155.44830
-100.0	-400.0	155.44830	350.0	-100.0	143.25630	350.0	-150.0	143.25630
350.0	-200.0	143.25630	350.0	-250.0	146.30430	350.0	-300.0	146.30430
350.0	-350.0	149.35230	350.0	-400.0	149.35230	400.0	-100.0	143.25630
400.0	-150.0	143.25630	400.0	-200.0	146.30430	400.0	-250.0	146.30430
400.0	-300.0	146.30430	400.0	-350.0	146.30430	400.0	-400.0	146.30430
450.0	-100.0	143.25630	450.0	-150.0	146.30430	450.0	-200.0	146.30430
450.0	-250.0	146.30430	450.0	-300.0	146.30430	450.0	-350.0	146.30430
450.0	-400.0	146.30430	500.0	-100.0	143.25630	500.0	-150.0	146.30430
500.0	-200.0	146.30430	500.0	-250.0	146.30430	500.0	-3	
500.0	-350.0	143.25630	500.0	-400.0	146.30430	550.0	-1	
550.0	-150.0	146.30430	550.0	-200.0	146.30430	550.0	-250.0	146.30430

550.0	-300.0	146.30430	550.0	-350.0	146.30430	550.0	-400.0	146.30430
600.0	-100.0	146.30430	600.0	-150.0	146.30430	600.0	-200.0	146.30430
600.0	-250.0	146.30430	600.0	-300.0	146.30430	600.0	-350.0	146.30430
600.0	-400.0	146.30430	650.0	-100.0	146.30430	650.0	-150.0	146.30430
650.0	-200.0	146.30430	650.0	-250.0	146.30430	650.0	-300.0	146.30430
650.0	-350.0	146.30430	650.0	-400.0	146.30430	100.0	-350.0	149.35230
100.0	-400.0	149.35230	100.0	-450.0	149.35230	100.0	-500.0	152.40030
100.0	-550.0	155.44830	100.0	-600.0	158.49630	100.0	-650.0	158.49630
150.0	-350.0	149.35230	150.0	-400.0	149.35230	150.0	-450.0	152.40030
150.0	-500.0	152.40030	150.0	-550.0	152.40030	150.0	-600.0	155.44830
150.0	-650.0	155.44830	200.0	-350.0	146.30430	200.0	-400.0	149.35230

*** WHITMOYER INC. 1988 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE.
200.0	-450.0	152.40030	200.0	-500.0	152.40030	200.0	-550.0	155.44830
200.0	-600.0	155.44830	200.0	-650.0	155.44830	250.0	-350.0	149.35230
250.0	-400.0	149.35230	250.0	-450.0	152.40030	250.0	-500.0	152.40030
250.0	-550.0	155.44830	250.0	-600.0	155.44830	250.0	-650.0	152.40030
300.0	-350.0	149.35230	300.0	-400.0	149.35230	300.0	-450.0	152.40030
300.0	-500.0	152.40030	300.0	-550.0	155.44830	300.0	-600.0	152.40030
300.0	-650.0	152.40030	350.0	-350.0	149.35230	350.0	-400.0	149.35230
350.0	-450.0	152.40030	350.0	-500.0	152.40030	350.0	-550.0	155.44830
350.0	-600.0	152.40030	350.0	-650.0	152.40030	400.0	-350.0	146.30430
400.0	-400.0	149.35230	400.0	-450.0	152.40030	400.0	-500.0	152.40030
400.0	-550.0	155.44830	400.0	-600.0	152.40030	400.0	-650.0	152.40030
600.0	-350.0	143.25630	600.0	-400.0	143.25630	600.0	-450.0	143.25630
600.0	-500.0	143.25630	600.0	-550.0	143.25630	600.0	-600.0	143.25630
600.0	-650.0	143.25630	650.0	-350.0	143.25630	650.0	-400.0	143.25630
650.0	-450.0	143.25630	650.0	-500.0	146.30430	650.0	-550.0	143.25630
650.0	-600.0	143.25630	650.0	-650.0	143.25630	700.0	-350.0	143.25630
700.0	-400.0	146.30430	700.0	-450.0	146.30430	700.0	-500.0	146.30430
700.0	-550.0	146.30430	700.0	-600.0	146.30430	700.0	-650.0	146.30430
750.0	-350.0	143.25630	750.0	-400.0	146.30430	750.0	-450.0	149.35230
750.0	-500.0	149.35230	750.0	-550.0	149.35230	750.0	-600.0	149.35230
750.0	-650.0	149.35230	800.0	-350.0	146.30430	800.0	-400.0	146.30430
800.0	-450.0	149.35230	800.0	-500.0	149.35230	800.0	-550.0	152.40030
800.0	-600.0	152.40030	800.0	-650.0	149.35230	850.0	-350.0	146.30430
850.0	-400.0	146.30430	850.0	-450.0	149.35230	850.0	-500.0	149.35230
850.0	-550.0	152.40030	850.0	-600.0	152.40030	850.0	-650.0	152.40030
900.0	-350.0	146.30430	900.0	-400.0	146.30430	900.0	-450.0	149.35230
900.0	-500.0	149.35230	900.0	-550.0	152.40030	900.0	-600.0	155.44830
900.0	-650.0	152.40030	200.0	-100.0	143.25630	200.0	-150.0	146.30430
200.0	-200.0	146.30430	200.0	-250.0	149.35230	200.0	-300.0	[illegible]
200.0	-350.0	146.30430	200.0	-400.0	149.35230	250.0	-100.0	
250.0	-150.0	143.25630	250.0	-200.0	146.30430	250.0	-250.0	146.30430

250.0	-300.0	146.30430	250.0	-350.0	146.30430	250.0	-400.0	149.35230
300.0	-100.0	143.25630	300.0	-150.0	143.25630	300.0	-200.0	143.25630
300.0	-250.0	143.25630	300.0	-300.0	146.30430	300.0	-350.0	149.35230
300.0	-400.0	149.35230	350.0	-100.0	143.25630	350.0	-150.0	143.25630
350.0	-200.0	143.25630	350.0	-250.0	146.30430	350.0	-300.0	146.30430
350.0	-350.0	149.35230	350.0	-400.0	149.35230	400.0	-100.0	143.25630
400.0	-150.0	143.25630	400.0	-200.0	143.25630	400.0	-250.0	146.30430

*** WHITMOYER INC. 1988 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

* ELEVATION HEIGHTS IN METERS *
* FOR THE DISCRETE RECEPTOR POINTS *

- X -	- Y -	ELE.	- X -	- Y -	ELE.	- X -	- Y -	ELE
400.0	-300.0	149.35230	400.0	-350.0	146.30430	400.0	-400.0	149.35230
-50.0	-100.0	149.35230	-50.0	-150.0	149.35230	-50.0	-200.0	152.40030
-50.0	-250.0	152.40030	-50.0	-300.0	155.44830	-50.0	-350.0	155.44830
-50.0	-400.0	155.44830	.0	-100.0	149.35230	.0	-150.0	149.35230
.0	-200.0	152.40030	.0	-250.0	152.40030	.0	-300.0	152.40030
.0	-350.0	155.44830	.0	-400.0	155.44830	50.0	-100.0	149.35230
50.0	-150.0	149.35230	50.0	-200.0	152.40030	50.0	-250.0	152.40030
50.0	-300.0	152.40030	50.0	-350.0	152.40030	50.0	-400.0	155.44830
100.0	-100.0	149.35230	100.0	-150.0	149.35230	100.0	-200.0	149.35230
100.0	-250.0	152.40030	100.0	-300.0	152.40030	100.0	-350.0	155.44830
100.0	-400.0	149.35230	150.0	-100.0	149.35230	150.0	-150.0	149.35230
150.0	-200.0	149.35230	150.0	-250.0	149.35230	150.0	-300.0	149.35230
150.0	-350.0	149.35230	150.0	-400.0	149.35230	950.0	-350.0	146.30430
950.0	-400.0	146.30430	950.0	-450.0	149.35230	950.0	-500.0	152.40030
950.0	-550.0	152.40030	950.0	-600.0	152.40030	950.0	-650.0	152.40030
1000.0	-350.0	146.30430	1000.0	-400.0	149.35230	1000.0	-450.0	149.35230
1000.0	-500.0	152.40030	1000.0	-550.0	152.40030	1000.0	-600.0	155.44830
1000.0	-650.0	155.44830	1050.0	-350.0	146.30430	1050.0	-400.0	146.30430
1050.0	-450.0	149.35230	1050.0	-500.0	152.40030	1050.0	-550.0	155.44830
1050.0	-600.0	152.40030	1050.0	-650.0	152.40030	1100.0	-350.0	146.30430
1100.0	-400.0	146.30430	1100.0	-450.0	149.35230	1100.0	-500.0	152.40030
1100.0	-550.0	155.44830	1100.0	-600.0	152.40030	1100.0	-650.0	152.40030
1150.0	-350.0	155.44830	1150.0	-400.0	146.30430	1150.0	-450.0	146.30430
1150.0	-500.0	149.35230	1150.0	-550.0	152.40030	1150.0	-600.0	155.44830
1150.0	-650.0	152.40030						

*** WHITMOYER INC. 1988 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

*** SOURCE DATA ***

SOURCE	P Y	K A	PART. NUMBER	EMISSION RATE TYPE=0;1 (GRAMS/HOUR) TYPE=2 (GRAMS/HOUR)	X	Y	BASE ELEV.	HEIGHT	TEMP. TYPE=0 (DEG.K); VERT.DIM TYPE=1	EXIT VEL. TYPE=0 (M/SEC); HORZ.DIM TYPE=1,2	DIAMETER TYPE=0	BLD HEIG TYPE=0	TYPE=0

NUMBER	E	E	CATS.	TYPE	METER**2	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	METERS.	METERS.	METERS.	METERS.	METERS
1	0	0	1		.22680E+02	.0	.0	146.3	65.00	344.30	3.65	1.10	.00	.0	.0

1

*** SMITHOVER INC. 1988 3RD QTR-ARSENIC DEP VAR- MGT SPOT/HOUR.I ***

*** SOURCE PARTICULATE DATA ***

*** SOURCE NUMBER = 1 ***

MASS FRACTION =
1.00000.

SETTLING VELOCITY(METERS/SEC) =
.0004.

SURFACE REFLECTION COEFFICIENT =
.92000.

* CALM HOURS (=1) FOR DAY 184 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 185 *	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 186 *	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 187 *	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 188 *	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1
* CALM HOURS (=1) FOR DAY 189 *	0	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 190 *	1	1	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
* CALM HOURS (=1) FOR DAY 191 *	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 192 *	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 193 *	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 194 *	0	1	0	0	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	
* CALM HOURS (=1) FOR DAY 196 *	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 197 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
* CALM HOURS (=1) FOR DAY 198 *	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0
* CALM HOURS (=1) FOR DAY 199 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1
* CALM HOURS (=1) FOR DAY 200 *	1	1	1	0	0	0	1	1	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 201 *	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 202 *	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	0	0	1	0	0	1	1	0	1
* CALM HOURS (=1) FOR DAY 203 *	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 204 *	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1
* CALM HOURS (=1) FOR DAY 205 *	1	1	1	1	1	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 206 *	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 207 *	0	1	0	0	0	1	1	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	1	1
* CALM HOURS (=1) FOR DAY 208 *	1	1	1	0	1	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
* CALM HOURS (=1) FOR DAY 209 *	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1
* CALM HOURS (=1) FOR DAY 210 *	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1
* CALM HOURS (=1) FOR DAY 211 *	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
* CALM HOURS (=1) FOR DAY 212 *	0	0	0	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 213 *	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	
* CALM HOURS (=1) FOR DAY 214 *	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0
* CALM HOURS (=1) FOR DAY 215 *	1	0	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 216 *	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 217 *	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
* CALM HOURS (=1) FOR DAY 218 *	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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* CALM HOURS (=1) FOR DAY 219 * 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 220 * 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 0
* CALM HOURS (=1) FOR DAY 221 * 1 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 1 0 0 1 1
* CALM HOURS (=1) FOR DAY 222 * 0 1 1 1 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 223 * 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 224 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 225 * 0 1 1 1 1 1 0 1 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 226 * 1 0 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 227 * 0 0 1 1 1 1 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 228 * 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 229 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
* CALM HOURS (=1) FOR DAY 230 * 1 0 1 0 1 1 1 1 1 1 0 0 1 0 1 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 232 * 1 1 1 0 0 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0
* CALM HOURS (=1) FOR DAY 233 * 0 1 1 1 1 1 1 1 1 1 1 0 1 0 0 0 1 1 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 234 * 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0
* CALM HOURS (=1) FOR DAY 235 * 0 1 1 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 236 * 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 237 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 238 * 1 1 0 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 239 * 1 1 1 1 1 0 1 1 0 0 0 0 0 0 0 1 1 1 0 1 1 1 1 0
* CALM HOURS (=1) FOR DAY 240 * 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 242 * 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 243 * 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0
* CALM HOURS (=1) FOR DAY 244 * 0 0 0 1 0 1 0 1 1 0 1 0 0 0 0 0 0 0 0 1 0 1 1 1
* CALM HOURS (=1) FOR DAY 245 * 1 1 1 0 1 1 1 0 1 1 1 0 0 0 0 0 0 0 0 1 0 1 1 1
* CALM HOURS (=1) FOR DAY 246 * 1 1 1 1 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 247 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 249 * 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 250 * 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 251 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 1 1 1 1
* CALM HOURS (=1) FOR DAY 252 * 1 1 1 1 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 1
* CALM HOURS (=1) FOR DAY 253 * 0 1 1 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1
* CALM HOURS (=1) FOR DAY 255 * 0 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 1
* CALM HOURS (=1) FOR DAY 256 * 1 0 1 1 1 1 0 1 1 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 259 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 260 * 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 261 * 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 1
* CALM HOURS (=1) FOR DAY 262 * 0 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0 1 0 1 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 263 * 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 266 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
* CALM HOURS (=1) FOR DAY 267 * 1 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 268 * 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0
* CALM HOURS (=1) FOR DAY 269 * 0 0 0 1 0 0 0 0 1 1 1 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 270 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1
* CALM HOURS (=1) FOR DAY 271 * 1 1 1 0 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 1 1 0 1 0 1
* CALM HOURS (=1) FOR DAY 272 * 1 1 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* CALM HOURS (=1) FOR DAY 273 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 0
* CALM HOURS (=1) FOR DAY 274 * 1 1 0 1 1 0 0 1 1 1 0 1 0 0 0 0 0 0 0 1 1 0 1 1 1
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MAX 50
1-HR
SCROUP# 1

*** WHITMOYER INC. 1988 3RD QTR-ARSENIC DEP UPR- HOT SPOT/HOURLY ***

* 50 MAXIMUM 1-HOUR TOTAL DEPOSITION GRAMS/METER SQUARE *

* FROM ALL SOURCES *

RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y (METERS) OR DIRECTION (DEGREES)	RANK	DEP.	HOUR	DAY	X OR RANGE (METERS)	Y (METERS) OR DIRECTION (DEGREES)
1	.00001	14	189	-50.0	-300.0	26	.00001	11	186	-150.0	-300.0
2	.00001	13	195	50.0	-300.0	27	.00001	11	190	100.0	-350.0
3	.00001	13	211	-150.0	-250.0	28	.00001	11	214	300.0	-350.0
4	.00001	13	195	50.0	-250.0	29	.00001	12	185	-150.0	-350.0
5	.00001	13	190	.0	-300.0	30	.00001	12	188	200.0	-300.0
6	.00001	11	192	100.0	-300.0	31	.00001	13	211	-200.0	-300.0
7	.00001	14	189	-50.0	-250.0	32	.00001	12	185	-150.0	-300.0
8	.00001	11	186	-200.0	-250.0	33	.00001	13	211	-150.0	-300.0
9	.00001	11	192	50.0	-250.0	34	.00001	14	189	.0	-350.0
10	.00001	11	192	50.0	-300.0	35	.00001	13	195	50.0	-350.0
11	.00001	12	185	-200.0	-250.0	36	.00001	14	188	250.0	-350.0
12	.00001	13	190	.0	-250.0	37	.00001	11	186	-250.0	-350.0
13	.00001	14	188	200.0	-250.0	38	.00001	14	195	300.0	-150.0
14	.00001	13	211	-200.0	-250.0	39	.00001	11	192	100.0	-350.0
15	.00001	12	188	250.0	-200.0	40	.00001	13	226	-300.0	-100.0
16	.00001	12	185	-200.0	-200.0	41	.00001	14	195	250.0	-150.0
17	.00001	11	192	100.0	-250.0	42	.00001	11	192	100.0	-350.0
18	.00001	13	211	-150.0	-200.0	43	.00001	11	190	250.0	-350.0
19	.00001	13	195	100.0	-300.0	44	.00001	11	221	250.0	-300.0
20	.00001	13	190	50.0	-300.0	45	.00001	11	190	200.0	-300.0
21	.00001	13	190	.0	-350.0	46	.00001	11	225	300.0	-100.0
22	.00001	11	186	-200.0	-200.0	47	.00001	11	188	300.0	-350.0
23	.00001	14	188	200.0	-200.0	48	.00001	12	188	250.0	-350.0
24	.00001	14	189	-50.0	-350.0	49	.00001	11	221	250.0	-350.0
25	.00001	14	189	.0	-300.0	50	.00001	11	214	250.0	-350.0

RUN ENDED ON 09-06-90 AT 09:59:56

APPENDIX 3

RISK ASSESSMENT CALCULATIONS

NUS CORPORATION AND SUBSIDIARIES — STANDARD CALCULATION SHEET

CLIENT: EPA	FILE NO.: 1817	BY: JJL	PAGE 1 OF 4
SUBJECT: Risk assessment Arsenic Ingestion & Inhalation		CHECKED BY: JAB	DATE: 6/24/90

Revised 9/25/90

Inhalation

1. Assumptions: CPF_{Inh} for Arsenic = 50 (mg/kg-day)$^{-1}$ ✓
   Inhalation Rate: 20 m^3/day ✓
   Duration (Inhalation): 70 days ✓
   Body Wt: 70 Kg ✓
   RFD_{Inh}: 0.001 ✓
   Absorption Factor: 0.3

2. Carcinogenic Risks (Excess lifetime cancer risk)
   = CPF x dose = 1×10^{-6} to 1×10^{-4}

$$\text{Dose} = \frac{20\ m^3/day \times [mg/kg] \times 70\ kg \times 0.3 \times 1}{70\ Kg \times 70\ yrs\ (365\ days/yr)}$$

$$= 3 \times 10^{-4}\ [mg/m^3] \checkmark$$

Concentration for 1×10^{-6} ELCR

$$= \frac{1 \times 10^{-6}}{3 \times 10^{-4} \times 50} = 7 \times 10^{-5}\ mg/m^3 \checkmark$$

or 0.07 ug/m^3 ✓

Concentration for 1×10^{-4} ELCR = 7 ug/m^3 ✓

Risk (lower bound) 0.5% prob

$$\frac{3 \times 10^{-4} \times 0.0132\ ug/m^3 \times 50}{1000\ ug/mg}$$

$$= 2 \times 10^{-7} \checkmark$$

AR304169

NUS 168A REVISED 0886

Ingestion

1) Assumptions:

CPF$_{Ing}$: 1.8 [mg/kg-day]$^{-1}$ ✓

Ingestion Rate: 200 mg-soil/day (0-5 yr)

: 100 mg-soil/day (6-70 yr)

Absorption: 100% ✓

Body wt: 13 Kg (0-5 yr) ✓

70 Kg (6-70 yr) ✓

Exposure: 70 yrs for ELCR

: 1 yr for HQ ✓

RFD$_{Ing}$: 0.001 (mg/Kg-day)

2) Carcinogenic Risks (ELCR)

$$Dose = \left([mg/Kg] \times \frac{Kg}{10^3 g} \times \frac{365 days/yr}{365 days/yr} \times \frac{1}{70 yr}\right) \times \left(\frac{0.2 g/day \times 5 yr + 0.1 g/day \times 65 yr}{13 Kg \quad\quad 70 Kg}\right)$$

$$= [mg/Kg] \times 2.4 \times 10^{-6} \checkmark$$

Concentration for 1×10^{-6} ELCR

$$\frac{1 \times 10^{-6}}{2.4 \times 10^{-6} \times 1.8} = 0.23 \text{ mg/Kg} \checkmark$$

Concentration for 1×10^{-4} ELCR = 23 mg/Kg ✓

3) Hazard Quotient (Short Term Risk)

For HQ = 1, use a

$$Dose: \frac{[mg/Kg] \times 0.2 g/day \text{ ingest.}}{13 Kg} \times 10^{-5} [mg/Kg] \checkmark$$

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So. / Concentration for HQ = 1

$$\frac{0.001}{1.5 \times 10^{-5}} = 65 \text{ mg/kg}$$

4 Risks (upper bound - 2.0 u)

So. / concentration (see sheet 4 for conversion)

$$\frac{0.0009 \text{ g/m}^2 \times 2 \text{ mg/kg}}{1.0 \text{ g/m}^2} = 0.0018 \text{ mg/kg}$$

Carcinogenic Risk

$$\frac{0.0018}{0.23} \times .1 \times 10^{-6} = 8 \times 10^{-9}$$

Hazard Quotient

$$\frac{0.0018}{65} = 3 \times 10^{-5}$$ ✓

Say <0.1 ✓

NUS CORPORATION AND SUBSIDIARIES			STANDARD CALCULATION SHEET
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SUBJECT: Conversion of deposition to soil concentration		CHECKED BY: MRS	DATE: 2/24/90

Assume deposition mixed in soil in the top 12" of soil.

Assume a soil density of 100 lb/CF

For a 1 gram/m² deposition,

$$\frac{1 \text{ gram}}{\text{m}^2} \times \frac{\text{lb}}{454 \text{ grams}} \times \frac{3.28^2 \text{ ft}^2}{\text{m}^2} = \frac{2.0 \times 10^{-4} \text{ lb}}{\text{SF}}$$

For a 1 ft mix zone,

$$= \frac{2.0 \times 10^{-4} \text{ lb}}{\text{CF}}$$

Concentration =

$$\frac{2.0 \times 10^{-4} \text{ lb/CF}}{100 \text{ lb/CF}} = \frac{2 \times 10^{-6} \text{ lb}}{\text{lb}} = 2 \text{ mg/kg}$$

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