Attachment A-Exhibit 3

RESPONSE TO COMMENTS ON THE INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR THE

LENNAR RESIDENTIAL PROJECT
TENTATIVE TRACT MAP 36497

(Planning Application 12-0364)
SCH# 2013111061
Lead Agency:

CITY OF WILDOMAR

23873 Clinton Keith Road, Suite 201
Wildomar, CA 92595

Prepared by:

PMC

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August 2014

1.0 INTRODUCTION

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A Site Balance Memorandum from Project Engineer
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1.0 Introduction

This document, in conjunction with the Draft Initial Study/Mitigated Negative Declaration ("IS/MND") responds to comments made on the proposed Lennar Residential Tentative Tract Map (TTM 36497). The Lennar project also includes a rezoning in order for the zoning to be consistent with the project site's General Plan designation. While the state California Environmental Quality Act (CEQA) Guidelines do not require a Final Initial Study or the preparation of formal responses to comments on draft initial studies/mitigated negative declarations, in order to provide further disclosure of the project's impacts, the City has determined to provide responses to the comments it has received.

1.1 BACKGROUND OF ENVIRONMENTAL REVIEW PROCESS FOR THE PROJECT

FIRST INITIAL STUDY

The first IS/MND was released for public and agency review on May 23, 2013, with the 30-day review period ending on June 11, 2013. The City received four comment letters during this review period. Because of changes proposed to the project by the applicant, the City decided to revise and recirculate the initial IS/MND.

SECOND INITIAL STUDY

The second initial study was circulated for public review from November 20, 2013 through December 30, 2013. The City received seven comment letters on the IS/MND. Comments received on this IS/MND from the California Department of Fish and Wildlife (CDFW) and the United States Fish and Wildlife Service (USFWS) collectively referred to as "wildlife agencies" and a follow up site visit resulted in a change in the characterization of the man-made pond and associated upland swale to classify them as riverine/riparian habitat. This change in classification resulted in the need for new mitigation to offset the project impacts. In order to more thoroughly address this impact, and to provide additional mitigation, the City decided to revise and recirculate the IS/MND again, pursuant to CEQA Guidelines Section 15073.5(b)(1).

THIRD INITIAL STUDY

The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. This version of the IS/MND reflected discussions with the wildlife agencies and new mitigation measures that address project impacts. The City received two comment letters during the public review period on this IS/MND.

RESPONSE TO COMMENTS

This document provides a response to comments received on all versions of the IS/MND. The 13 comment letters are listed chronologically. It is important to note that the responses to some of the comments submitted during the first and second IS/MND were thoroughly addressed by the by the third IS/MND. In reading the response to comments on earlier drafts of the IS/MND, the reader may be referred to responses on the current (third) IS/MND.

1.2 INTENDED USES OF THE IS/MND

The IS/MND in its final form will be used by the City of Wildomar in considering approval of the proposed project. In accordance with CEQA Guidelines Section 15074, the IS/MND will be used as the primary environmental document in consideration of all subsequent planning and

permitting actions associated with the project, to the extent such actions require CEQA compliance and as otherwise permitted under applicable law.

CONSIDERATION OF COMMENTS

Prior to taking action on the proposed project, the City will consider the IS/MND, this response to comments document, and any additional comments or testimony.

15074. CONSIDERATION AND ADOPTION OF A NEGATIVE DECLARATION OR MITIGATED NEGATIVE DECLARATION.

(a) Any advisory body of a public agency making a recommendation to the decision-making body shall consider the proposed negative declaration or mitigated negative declaration before making its recommendation.

(b) Prior to approving a project, the decision-making body of the lead agency shall consider the proposed negative declaration or mitigated negative declaration together with any comments received during the public review process. The decision-making body shall adopt the proposed negative declaration or mitigated negative declaration only if it finds on the basis of the whole record before it (including the initial study and any comments received), that there is no substantial evidence that the project will have a significant effect on the environment and that the negative declaration or mitigated negative declaration reflects the lead agency's independent judgment and analysis.

(c) When adopting a negative declaration or mitigated negative declaration, the lead agency shall specify the location and custodian of the documents or other material which constitute the record of proceedings upon which its decision is based.

(d) When adopting a mitigated negative declaration, the lead agency shall also adopt a program for reporting on or monitoring the changes which it has either required in the project or made a condition of approval to mitigate or avoid significant environmental effects.

(e) A lead agency shall not adopt a negative declaration or mitigated negative declaration for a project within the boundaries of a comprehensive airport land use plan or, if a comprehensive airport land use plan has not been adopted, for a project within two nautical miles of a public airport or public use airport, without first considering whether the project will result in a safety hazard or noise problem for persons using the airport or for persons residing or working in the project area.

(f) When a non-elected official or decision making body of a local lead agency adopts a negative declaration or mitigated negative declaration, that adoption may be appealed to the agency's elected decision making body, if one exists. For example, adoption of a negative declaration for a project by a city's planning commission may be appealed to the city council. A local lead agency may establish procedures governing such appeals.

Upon review and consideration of the Final IS/MND, the City may take action to adopt, revise, or reject the proposed project. A decision to approve the proposed project would be made in a resolution recommending certification of the IS/MND as part of the consideration of the proposed project. The City of Wildomar has prepared this IS/MND and has determined that the environmental impacts of the proposed project have been reduced to a less than significant level through mitigation measures adopted as part of a mitigation monitoring and reporting program (MMRP).

1.3 ORGANIZATION AND SCOPE OF THIS DOCUMENT

This document is organized in the following manner:

SECTION 1.0 – INTRODUCTION

Section 1.0 provides an overview of the environmental review process to date and discusses the CEQA requirements for consideration and adoption of a mitigated negative declaration.

Section 2.0 – COMMENTS AND RESPONSES TO COMMENTS ON THE IS/MND

Section 2.0 provides a list of commenters, copies of written comments (coded for reference), and the responses to those comments made on the IS/MND.

Section 3.0 – MINOR REVISIONS TO THE IS/MND

Section 3.0 provides a list of minor edits made to the IS/MND as a result of comments received or other staff-initiated changes.

2.0 Response to Comments

VI RESPONSE TO COMMENTS

LIST OF COMMENTERS

The following individuals and representatives of organizations and agencies submitted written comments on the Draft MND. As discussed above, the Initial Study/Mitigated Negative Declaration ("IS/MND") has been through three different public review/comment periods. The initial IS/MND was first circulated from May 23, 2013 through June 11, 2013 ("First Distribution"), a revised IS/MND was circulated from November 20, 2013 through December 30, 2013 ("Second Distribution") and a further revised IS/MND was circulated from June 16, 2014 through July 16, 2014 ("Third Distribution").

Comment letters containing a prefix of 1 are from the First Distribution, letters containing a prefix of 2 are from the Second Distribution and letters containing a prefix of 3 are from the Third Distribution. Comments are numbered sequentially in each letter.

Letter	Agency, Organization, or Individual	Date
1-1	Sheryl Ade	June 11, 2013
1-2	Pechanga Tribe	June 11, 2013
1-3	Elsinore Valley Water District	June 13, 2013
1-4	Alliance for Intelligent Planning (via Johnson & Sedlack, Attorneys at Law)	June 21, 2013

Letter	Agency, Organization, or Individual	Date
2-1	Santa Ana Regional Water Quality Control Board	December 3, 2013
2-2	California Native American Heritage Commission	December 3, 2013
2-3	California Department of Transportation	December 11, 2013
2-4	Alliance for Intelligent Planning (via Johnson & Sedlack, Attorneys at Law)	December 16, 2013
2-5	Pechanga Tribe	December 20, 2013
2-6	US Fish and Wildlife Service	December 23, 2013
2-7	Southern California Edison	December 30, 2013

Letter	Agency, Organization, or Individual	Date
3-1	Alliance for Intelligent Planning (via Johnson & Sedlack, Attorneys at Law)	July 16, 2014
3-2	South Coast Air Quality Management District	June 25, 2014

COMMENTS AND RESPONSES

Written comments on the Draft MND are reproduced on the following pages, along with responses to those comments. Note that the comments span three versions of the IS/MND). Where the comment was addressed by a subsequent version of the IS/MND, it will be noted in the response and the reader may be directed to a later response to comment. While CEQA does not require lead agencies to provide formal responses to comments received on initial studies supporting proposed mitigated negative declarations, the City prepared this response to comments document to provide responses to comments received on all versions of the IS/MND in order to provide comprehensive information and disclosure for both the public and City's decision makers.

Where changes deemed necessary to clarify the Draft MND text result from responding to comments, those minor changes are included in the response and demarcated with revision marks (underline for new text, ~~strikeout~~ for deleted text). The 13 comment letters are listed chronologically.

The changes do not require recirculation because the changes do not make any substantial revisions per CEQA Guidelines Section 15073.5, which state that a lead agency (the City) is required to recirculate a negative declaration in the case that the document must be substantially revised after public notice of its availability has previously been given. A "substantial revision" is defined as a new, avoidable significant effect which requires the addition of mitigation measures or project revisions in order to reduce the effect to insignificance, or a new, significant effect which cannot be mitigated to a less than significant level. Based on the mitigation measures included in the IS/MND, and as shown in the responses to comments provided below, no changes to the project or new mitigation measures are needed to ensure the environmental impacts of the proposed project are reduced to a less than significant level.

Letter 1-1

Sheryl Ade
22912 Pavia Court
Wildomar, CA 92595

June 11, 2013

VIA HAND DELIVERY

Matt Bassi, Planning Director
City of Wildomar
23873 Clinton Keith Road, Ste. 201
Wildomar, CA 92595

Re: Lennar –Tentative Tract Map 36497 - APNs: 380-280-004, 380-280-009, 380-280-010, 380-280-011, and 380-280-012

Dear Mr. Bassi:
I have not had time to go over everything regarding this proposed development, however since the deadline for comments is today, I am at least going to submit some initial concerns for the record.

Appendix 1 – Final Sight Plan of Development.
In looking at the proposed Lennar project off of Prielipp Rd., Appendix I Final Sight Plan of Development, pg. 1: I noted that Lennar is asking for three different types of variance (or as they call it Deviations from Residential Design Guidelines) as follows:

A) Street Centerline minimum radius standards from 300 to 210 on A Street, 270 on B Street and 165 on E Street.

B) Minimum lot frontage in cul-de-sacs and knuckles. Standard is 40'. Deviations requested on lots 12-15 (30'); Lot 16 (31'), Lot 27 (36'), Lot 28 (39'), Lott 44 (31'), Lots 45-46 (31') and Lot 47 (34').

C) Variation in street section for A Street to allow curb adjacent sidewalk to allow landscaping between back of walk and proposed boundary walls.

At least there was a rational explanation for C. As to A & B - no explanation given. In speaking with City Engineering staff, I was told that they are ok with the minimized turning radius as it is adequate for the fire trucks to turn around. That's not an explanation as to the need for these minimized turning ratios. **1-1-1**

I find the minimum lot frontages troublesome as well. Cul-de-sacs have limited parking to begin with, but to ask for up to a 25% reduction of that space is questionable planning practice. It should not be written off as insignificant. Engineering staff's comment was it means there would be only one less on-street parking spot lot in front of each lot. That's not an explanation as to the need for the reduction. **1-1-2**

Letter 1-1 Continued

Page 2
June 11, 2013

The City engineers do not have to allow variances. The burden of proof for a need for the variance is on the developer. So why is the Engineering/Planning Department allowing these variances? It's setting a very bad precedent, not to mention the basis for another suit against the City. The applicant has to demonstrate exceptional circumstances as to the property (not the project design) to justify a Zoning variance. **1-1-2 cont.**

Design Guidelines are created for a reason and abrogation of good design practices is detrimental to the community and to the people who may purchase these homes.

Appendix 1a – Site Photos

Great photos, however the lack of a directional arrow and captioning (explanation as to what we're direction we are looking to and from) makes them useless. **1-1-3**

Appendix 4 – Habitat Assessment and MSHCP Consistency Analysis and Burrowing Owl Survey

Correction needed on Page 3 under 1.1 Project Location, paragraph two reads:

> The project site can be accessed from SR-15 by exiting on Clinton Keith Road and traveling east,turning right onto Indian Valley Drive, then left onto Prielipp Road, and then right onto Elizabeth Lane. The project site is located on the west side of Elizabeth Lane.

That would be Inland Valley Drive *not* Indian Valley Drive. **1-1-4**

Lack of Buffering

In looking at the Tentative Tract Map plans, I note that homes are abutting the ranch property to the west of the project. The tract sits to the east as well as wraps around the southerly portion of the ranch property. Where is the buffer between medium-high density and the rural ranch property? This is the Smith Ranch tract fiasco all over again wherein two-story tract homes abutted and towered over five-acre ranch properties destroying their view and their privacy. I find it incredible that staff would ignore buffering, or worse, act as though it doesn't exist! Apparently the ranch owners will now have to drive through the tract to Elizabeth Lane to access Prielipp Road since Summer Dain Road is right-in, right-out only. Unbelievable encroachment with no thought given to an existing property owner! **1-1-5**

Thank you for your consideration of these brief initial comments.

Sheryl Ade
Wildomar Resident and former Council Member

First Distribution
Response to Comment Letter 1-1
Sheryl Ade

June 11, 2013

1-1-1 The Final Site Plan of Development (IS/MND Appendix 1) for the proposed project was updated on January 28, 2014. As updated, the Final Site Plan of Development no longer contains a request to reduce street centerline minimum radiuses standards on any of the proposed streets. Deviations have been requested regarding the minimum lot frontage for several lots in cul-de-sacs and knuckles in order to fulfill the project objectives, which include the proposal to develop 67 single-family lots. City staff has reviewed the proposed deviations and determined that in the case of the project, the requested deviations could be implemented while still achieving the site design criteria governing the placement of driveways to allow for adequate site distance and turning movement, including for fire protection. The following addition will be made on page 2 of the third and current IS/MND:

> The project proposes deviations regarding the minimum lot frontage for several lots in cul-de-sacs and knuckles in order to fulfill the project objectives, which include the proposal to develop 67 single-family lots. Specifically, the proposed deviations include a lot frontage of 30 feet for Lots 58 – 61; 31 feet for Lot 57; 36 feet for Lot 46; 39 feet for Lot 45; 31 feet for Lots 27 - 29; and 34 feet for Lot 26. City staff has reviewed the proposed deviations and determined that in the case of the project, the requested deviations could be implemented while still achieving the site design criteria governing the placement of driveways to allow for adequate site distance and turning movement, including for fire protection.

This proposed change does not require recirculation of the IS/MND because it does not make any substantial revisions per CEQA Guidelines Section 15073.5, which state that a lead agency (the City) is required to recirculate a negative declaration in the case that the document must be substantially revised after public notice of its availability has previously been given. A "substantial revision" is defined as a new, avoidable significant effect which requires the addition of mitigation measures or project revisions in order to reduce the effect to insignificance, or a new, significant effect which cannot be mitigated to a less than significant level.

1-1-2 Please refer to Response 1-1-1.

1-1-3 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. In this version of the IS/MND, each figure or photo has a compass and caption located beneath it.

1-1-4 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. In this version of the IS/MND, Indian Valley Drive has been corrected to Inland Valley Drive.

1-1-5 Since this response was received, the Tentative Map has been slightly revised, to reflect a slightly larger park area. In addition to the residential parcels, the Tentative Map includes Lot H, which is a 39,190-square-foot (.09-acre) parcel intended as a park. The map also creates Lot L, which is a 242,556-square-foot (5.57-acre) parcel that would remain in open space. Lastly, Lot I includes a 47,419 square-foot (1.09-acre) parcel that would be developed as a stormwater detention and water quality basin. The proposed residential units would be set back from the western boundary by the proposed open space area, park, and stormwater detention basin. The proposed project would be consistent with the existing residential development occurring to the east and south, though would still

be separated by the appropriate setback distances in compliance with the City site design criteria. Similarly, all adjacent land uses would be separated from the proposed residential development by the established setback distance requirements. This slight revision does not require recirculation of the IS/MND because it does not make any substantial revisions per CEQA Guidelines Section 15073.5, which state that a lead agency (the City) is required to recirculate a negative declaration in the case that the document must be substantially revised after public notice of its availability has previously been given. A "substantial revision" is defined as a new, avoidable significant effect which requires the addition of mitigation measures or project revisions in order to reduce the effect to insignificance, or a new, significant effect which cannot be mitigated to a less than significant level.

Letter 1-2

PECHANGA CULTURAL RESOURCES
Temecula Band of Luiseño Mission Indians

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Richard B. Scearce, III

Director:
Gary DuBois

Coordinator:
Paul Macarro

Cultural Analyst:
Anna Hoover

June 11, 2013

VIA E-MAIL and USPS

Mr. Matthew Bassi
Planning Director
City of Wildomar Planning Dept
23873 Clinton Keith Road, Ste 201
Wildomar, CA 92595

Re: Pechanga Tribe Comments on the Initial Study for the Wildomar Subdivision Tentative Tract Map No. 36497

Dear Mr. Bassi:

This comment letter is written on behalf of the Pechanga Band of Luiseño Indians (hereinafter, "the Tribe"), a federally recognized Indian tribe and sovereign government in response to a Notice of Availability for the above reference Project. The Tribe formally requests, pursuant to Public Resources Code §21092.2, to be notified and involved in the entire CEQA environmental review process for the duration of the above referenced project (the "Project"). Please add the Tribe to your distribution list(s) for public notices and circulation of all documents, including environmental review documents, archeological reports, and all documents pertaining to this Project. The Tribe further requests to be directly notified of all public hearings and scheduled approvals concerning this Project. Please also incorporate these comments into the record of approval for this Project.

1-2-1

The Tribe submits these comments concerning the Project's potential impacts to cultural resources in conjunction with the environmental review of the Project and to assist the City in developing appropriate avoidance and preservation standards for the cultural sites that the Project will be impacting. The Tribe is concerned that the provided mitigation measures rely on a large list of various tribes and individuals for selecting a tribal monitor on this Project, many of which do not know anything about the cultural resources in Wildomar or did not actually live in the region (i.e., the area is not within their aboriginal territories). We have worked closely with the City for many years and request that the mitigation language specifically address the Pechanga Tribe as the measures included in the Initial Study (IS) are so vague that they could potentially leave the City and the Developer open to legal challenges and to interpretation and implementation concerns, which ultimately could lead to construction delays for the Applicant. Our requests and further comments are provided below and will hopefully assist the City and the Applicant in avoiding undue delays.

Sacred Is The Duty Trusted Unto Our Care And With Honor We Rise To The Need

Letter 1-2 Continued

Pechanga Comment Letter to the City of Wildomar
Re: Pechanga Tribe Comments on the Tract Map No 36497
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Page 2

THE CITY OF WILDOMAR MUST INCLUDE INVOLVEMENT OF AND CONSULTATION WITH THE PECHANGA TRIBE IN ITS ENVIRONMENTAL REVIEW PROCESS

It has been the intent of the Federal Government[1] and the State of California[2] that Indian tribes be consulted with regard to issues which impact cultural and spiritual resources, as well as other governmental concerns. The responsibility to consult with Indian tribes stems from the unique government-to-government relationship between the United States and Indian tribes. This arises when tribal interests are affected by the actions of governmental agencies and departments. In this case, it is undisputed that the project lies within the Pechanga Tribe's traditional territory. Therefore, in order to comply with CEQA and other applicable Federal and California law, it is imperative that the City of Wildomar consults with the Tribe in order to guarantee an adequate knowledge base for an appropriate evaluation of the Project's effects, as well as generating adequate mitigation measures.

We do want to raise a concern with the IS in that it contains a reference to SB 18 (see page 52-53 of the IS), which is not applicable to this Project as there is not a General or Specific Plan or applicable amendments required for the development application. We bring this to the City's attention in order to avoid challenges to the City's final decision on this Project for failure to comply with SB 18. We strongly recommend that the MND not contain references to SB 18 to avoid this confusion and potential delay for the City and Applicant. **1-2-1 cont.**

PECHANGA CULTURAL AFFILIATION TO PROJECT AREA

The Pechanga Tribe asserts that the Project area is part of Luiseño, and therefore the Tribe's, aboriginal territory as evidenced by the existence of Luiseño place names, *tóota yixélval* (rock art, pictographs, petroglyphs), and an extensive Luiseño artifact record in the vicinity of the Project. This culturally sensitive area is affiliated with the Pechanga Band of Luiseño Indians because of the Tribe's cultural ties to this area as well as extensive history with both this Project and other projects within the area.

1-2-2

The Pechanga Tribe's knowledge of our ancestral boundaries is based on reliable information passed down to us from our elders; published academic works in the areas of anthropology, history and ethno-history; and through recorded ethnographic and linguistic accounts. Of the many anthropologists and historians who have presented boundaries of the *Payómkawichum* (Luiseño) traditional territory, none have excluded the Wildomar area from their descriptions (Sparkman 1908; Kroeber 1925; White 1963; Harvey 1974; Oxendine 1983; Smith and Freers 1994), and such territory descriptions correspond almost identically with that

[1]See e.g., Executive Memorandum of April 29, 1994 on Government-to-Government Relations with Native American Tribal Governments, Executive Order of November 6, 2000 on Consultation and Coordination with Indian Tribal Governments, Executive Memorandum of September 23, 2004 on Government-to-Government Relationships with Tribal Governments, and Executive Memorandum of November 5, 2009 on Tribal Consultation.
[2] See California Public Resource Code §5097.9 et seq.; California Government Code §§65351, 65352.3 and 65352.4

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Letter 1-2 Continued

Pechanga Comment Letter to the City of Wildomar
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communicated to the Pechanga people by our elders. While historic accounts and anthropological and linguistic theories are important in determining traditional Luiseño territory, the most critical sources of information used to define our traditional territories are our songs, creation accounts, and oral traditions.

Luiseño history originates with the creation of all things at *'éxva Teméeku*, in the present day City of Temecula, and dispersing out to all corners of creation (what is today known as Luiseño territory). It was at Temecula that the Luiseño deity *Wuyóot* lived and taught the people, and here that he became sick, finally expiring at Lake Elsinore. Many of our songs relate the tale of the people taking the dying *Wuyóot* to the many hot springs in the area and finally to the hot springs at Elsinore, where he died (DuBois 1908). He was cremated at *'éxva Teméeku*. It is the Luiseño creation account that connects Elsinore to Temecula, and thus to the Temecula people who were evicted and moved to the Pechanga Reservation, and now known as the Pechanga Band of Luiseño Mission Indians (the Pechanga Tribe). From Elsinore, the people spread out, establishing villages and marking their territories. The first people also became the mountains, plants, animals and heavenly bodies.

Many traditions and stories are passed from generation to generation by songs. One of the Luiseño songs recounts the travels of the people to Elsinore after a great flood (DuBois 1908). From here, they again spread out to the north, south, east and west. Three songs, called *Monívol*, are songs of the places and landmarks that were destinations of the Luiseño ancestors, several of which are located near the Project area. They describe the exact route of the Temecula (Pechanga) people and the landmarks made by each to claim title to places in their migrations (DuBois 1908:110). In addition, Pechanga elders state that the Temecula/Pechanga people had usage/gathering rights to an area extending from Rawson Canyon on the east, over to Lake Mathews on the northwest, down Temescal Canyon to Temecula, eastward to Aguanga, and then along the crest of the Cahuilla range back to Rawson Canyon. The Project area is located within the south central area of this culturally affiliated territory. The Native American Heritage Commission (NAHC) Most Likely Descendent (MLD) files substantiate this habitation and migration record from oral tradition. These examples illustrate a direct correlation between the oral tradition and the physical place; proving the importance of songs and stories as a valid source of information outside of the published anthropological data.

1-2-2 cont.

Tóota yixélval (rock art) is also an important element in the determination of Luiseño territorial boundaries. *Tóota yixélval* can consist of petroglyphs (incised) elements, or pictographs (painted) elements. The science of archaeology tells us that places can be described through these elements. Riverside and Northern San Diego Counties are home to red-pigmented pictograph panels. Archaeologists have adopted the name for these pictograph-versions, as defined by Ken Hedges of the Museum of Man, as the San Luis Rey style. The San Luis Rey style incorporates elements which include chevrons, zig-zags, dot patterns, sunbursts, handprints, net/chain, anthropomorphic (human-like) and zoomorphic (animal-like) designs. Tribal historians and photographs inform us that some design elements are reminiscent of Luiseño ground paintings. A few of these design elements, particularly the flower motifs, the net/chain

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Letter 1-2 Continued

Pechanga Comment Letter to the City of Wildomar
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and zig-zags, were sometimes depicted in Luiseño basket designs and can be observed in remaining baskets and textiles today.

An additional type of *tóota yixélval*, identified by archaeologists also as rock art or petroglyphs, are cupules. Throughout Luiseño territory, there are certain types of large boulders, taking the shape of mushrooms or waves, which contain numerous small pecked and ground indentations, or cupules. Many of these cupule boulders have been identified within a few miles of the Project. Additionally, according to historian Constance DuBois:

> When the people scattered from Ekvo Temeko, Temecula, they were very powerful. When they got to a place, they would sing a song to make water come there, and would call that place theirs; or they would scoop out a hollow in a rock with their hands to have that for their mark as a claim upon the land. The different parties of people had their own marks. For instance, Albañas's ancestors had theirs, and Lucario's people had theirs, and their own songs of Munival to tell how they traveled from Temecula, of the spots where they stopped and about the different places they claimed (1908:158).

1-2-2 cont.

Thus, our songs and stories, our indigenous place names, as well as academic works, demonstrate that the Luiseño people who occupied what we know today as the City of Wildomar and the adjacent cities of Lake Elsinore and Murrieta are ancestors of the present-day Luiseño/Pechanga people, and as such, Pechanga is culturally affiliated to this geographic area.

The Tribe welcomes the opportunity to meet with the City of Wildomar to further explain and provide documentation concerning our specific cultural affiliation to lands within your jurisdiction if necessary.

PROJECT IMPACTS TO CULTURAL RESOURCES

The proposed Project is located in a highly sensitive region of Luiseño territory and the Tribe believes that the possibility for recovering subsurface resources during ground-disturbing activities is high. The Tribe has over thirty-five (35) years of experience in working with various types of construction projects throughout its territory. The combination of this knowledge and experience, along with the knowledge of the culturally-sensitive areas and oral tradition, is what the Tribe relies on to make fairly accurate predictions regarding the likelihood of subsurface resources in a particular location.

1-2-3

The Pechanga Band is not opposed to this Project; however, we are opposed to any direct, indirect and cumulative impacts this Project may have to tribal cultural resources. The Tribe's primary concerns stem from the Project's proposed impacts on Native American cultural resources. The Tribe is concerned about both the protection of unique and irreplaceable cultural resources, such as Luiseño village sites, sacred sites and archaeological items which would be

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Letter 1-2 Continued

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displaced by ground disturbing work on the Project, and on the proper and lawful treatment of cultural items, Native American human remains and sacred items likely to be discovered in the course of the work.

The Tribe is in receipt of the Phase I Cultural Resources Survey and the Initial Study for this Project. Based upon the information provided and our internal documents, the proposed Project is located within a sensitive region of Luiseño territory. The Tribe is aware of three previously recorded artifacts locations immediately adjacent to this Project. Furthermore, there are several blue-line streams located within a very close proximity as well as an existing drainage within the Project boundaries. The presence of water, as well as the previously recorded sites in this area, are all good indicators that cultural resources may be identified within the Project. The Tribe therefore concurs with the conclusion in the archaeological study recommending both professional archaeological and tribal monitoring during all earthmoving activities. **1-2-3 cont.**

PROJECT MITIGATION MEASURES

The Tribe appreciates the inclusion of archaeological and tribal monitoring during all earthmoving activities; however, the language in the mitigation measures is vague and unclear and does not accurately reflect the appropriate process. To assist with clarification, we have recommended the following changes to the mitigation measures below (underlines are additions, strikeouts are deletions):

CUI-1 Prior to development approval on the project site and issuance of any grading, building, or other permit authorizing ground-disturbing activity, the project applicant(s) shall include the following wording in all construction contract documentation: **1-2-4**

If during grading or construction activities cultural resources are discovered on the project site, work shall be halted immediately within 50 feet of the discovery and the resources shall be evaluated by a qualified archeologist and the Pechanga Tribe. Any unanticipated cultural resources that are discovered shall be evaluated and a final report prepared, by the qualified archaeologist. The report shall include a list of the resources ~~recovered~~ discovered, documentation of each site/locality, and interpretation of the resources ~~recovered~~ identified, and the method of preservation and/or recovery for identified resources. In the event the significant resources are recovered and if the qualified archaeologist and the Tribe determines the resources to be historic or unique, avoidance and/or mitigation would be required pursuant to and consistent with CEQA Guidelines Sections 15064.5 and 15126.4 and Public Resources Code Section 21083.2 and the Cultural Resources Treatment and Monitoring Agreement required in CUL-2.

Pechanga Cultural Resources • Temecula Band of Luiseño Mission Indians
Post Office Box 2183 • Temecula, CA 92592

Sacred Is The Duty Trusted Unto Our Care And With Honor We Rise To The Need

Letter 1-2 Continued

Pechanga Comment Letter to the City of Wildomar
Re: Pechanga Tribe Comments on the Tract Map No 36497
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CUL-2 At least 30 days prior to seeking a grading permit, the project applicant(s) shall contact the appropriate Tribe[3] to notify the Tribe of grading, excavation, and the monitoring program and to coordinate with the City of Wildomar and the Tribe to develop a Cultural Resources Treatment and Monitoring Agreement. The agreement shall include, but not be limited to, outlining provisions and requirements for addressing the treatment of cultural resources; project grading and development scheduling; terms of compensation for the monitors; and treatment and final disposition of any cultural resources, sacred sites, and human remains discovered on the site; and establishing on-site monitoring provisions and/or requirements for professional Tribal monitors during all ground-disturbing activities. A copy of this signed agreement shall be provided to the Planning Director and Building Official prior to the issuance of the first grading permit.

CUL-3 Prior to development approval on the project site and issuance of any grading, building, or other permit authorizing ground-disturbing activity, the project applicant(s) shall include the following wording on all construction contract documentation:

1-2-4 cont.

If human remains are encountered, California Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the Riverside County Coroner has made the necessary findings as to origin. Further, pursuant to California Public Resources Code Section 5097.98(b), remains shall be left in place and free from disturbance until a final decision as to the treatment and disposition has been made. If the Riverside County Coroner determines the remains to be Native American, the Native American Heritage Commission shall be contacted within a reasonable time frame. Subsequently, the Native American Heritage Commission shall identify the "most likely descendant" within 24 hours of receiving notification from the Coroner. The most likely descendant shall then have 48 hours to make recommendations and engage in consultations concerning the treatment of the remains as provided in Public Resources Code Section 5097.98.

CUL-4 ~~The landowner shall relinquish ownership of all cultural resources, including sacred items, burial goods, and all archaeological artifacts that are found on the project site, to the appropriate Tribe for proper treatment and disposition.~~
All cultural materials – with the exception of sacred items, burial goods and human remains which will be addressed in the Treatment Agreement required in CUL-2, that are collected during the grading monitoring program and from any previous archaeological studies or excavations on the project site shall be curated according to the current professional repository standards. The collections and associated records shall be transferred, including title, to the Pechanga Tribe's curation facility which meets the standards set forth in 36 CRF Part 79 for federal repositories.

[3] [3] It is anticipated that the Pechanga Tribe will be the "appropriate" Tribe due to their prior and extensive coordination with the City and project applicant in determining potentially significant impacts and appropriate mitigation measures.

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Letter 1-2 Continued

Pechanga Comment Letter to the City of Wildomar
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CUL-5 All sacred sites, should they be encountered within the project site, shall be avoided and preserved as the preferred mitigation, if feasible as determined by a qualified professional in consultation with the ~~appropriate culturally affiliated Native American Tribe.~~ Pechanga Tribe. To the extent that a sacred site cannot be feasibly preserved in place or left in an undisturbed state, mitigation measures shall be required pursuant to and consistent with Public Resources Code Section 21083.2 and CEQA Guidelines Sections 15064.5 and 15126.4.

CUL -6 Prior to development approval on the project site and issuance of any grading, building, or other permit authorizing ground-disturbing activity, the project applicant(s) shall include the following wording on all construction contract documentation:

If inadvertent discoveries of subsurface archaeological resources are discovered during grading, work shall be halted immediately within 50 feet of the discovery and the Developer, the project archaeologist and the Tribe shall assess significance of such resources and shall meet and confer regarding the mitigation for such resources. If the developer and the Tribe cannot agree on the significance or the mitigation for such resources, these issues will be presented to the City of Wildomar Planning Director ~~and a qualified, neutral archaeologist hired by the applicant and the Tribe for decision~~. The Planning Director and shall make the determination based on the provisions of CEQA with respect to archaeological resources and shall take into account the religious beliefs, customs, and practices of the ~~appropriate~~ Pechanga Tribe. Notwithstanding any other rights available under the law, the decision of the Planning Director shall be appealable to the City of Wildomar. In the event the significant resources are recovered and if the qualified archaeologist determines the resources to be historic or unique as defined by relevant state and local law, avoidance and mitigation would be required pursuant to and consistent with Public Resources Code Section 21083.2 and CEQA Guidelines Sections 15064.5 and 15126.4.

1-2-4 cont.

CUL-7 To address the possibility that cultural resources may be encountered during grading or construction, a qualified professional archaeologist shall monitor all construction activities that could potentially impact archaeological deposits and a qualified paleontologist shall monitor all construction activities that could potentially impact ~~and/or~~ paleontological deposits (e.g., grading, excavation, and/or trenching). However, monitoring may be discontinued as soon the qualified professional is satisfied that construction will not disturb cultural and/or paleontological resources.

The Tribe reserves the right to fully participate in the environmental review process, as well as to provide further comment on the Project's impacts to cultural resources and potential mitigation for such impacts.

The Pechanga Tribe looks forward to working together with the City of Wildomar in protecting the invaluable Pechanga cultural resources found in the Project area. Please contact

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Letter 1-2 Continued

Pechanga Comment Letter to the City of Wildomar
Re: Pechanga Tribe Comments on the Tract Map No 36497
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me at 951-770-8104 or at ahoover@pechanga-nsn.gov once you have had a chance to review these comments so that we might address the issues concerning the mitigation language. Thank you.

Sincerely,

Anna Hoover
Cultural Analyst

Cc Pechanga Office of the General Counsel

Pechanga Cultural Resources • Temecula Band of Luiseño Mission Indians
Post Office Box 2183 • Temecula, CA 92592

Sacred Is The Duty Trusted Unto Our Care And With Honor We Rise To The Need

First Distribution
Response to Comment Letter 1-2
Pechanga Cultural Resources
June 11, 2013

1-2-1 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. In this version of the IS/MND, the cultural resource-related mitigation suggested by the commenter has been added.

1-2-2 The commenter has established that the project region is part of Luiseño and therefore the Pechanga Tribe's aboriginal territory. This comment is noted.

1-2-3 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. In this version of the IS/MND, the cultural resource-related mitigation suggested by the commenter has been added. The commenter is referred to pages 65-68 of the third and current IS/MND.

1-2-4 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. In this version of the IS/MND, the cultural resource-related mitigation suggested by the commenter has been added. The commenter is referred to pages 65-68 of the third and current IS/MND.

Letter 1-3

Board of Directors
Phil Williams, President
Andy Morris, Vice President
Judy Guglielmana, Treasurer
W. Ben Wicke, Director
Harvey R. Ryan, Director

Elsinore Valley Municipal Water District

Our Mission…
EVMWD will provide reliable, cost-effective, high quality water and wastewater services that are dedicated to the people we serve.

General Manager
John D. Vega
District Secretary
Terese Quintanar
Legal Counsel
Best Best & Krieger

June 13, 2013

Attn: Matt Bassi
City of Wildomar
23873 Clinton Keith Road, Suite 201
Wildomar, CA 92595

Subject: **Mitigated Negative Declaration Review TTM No. 36497**
APN: 380-280-004, 009, 010, 011 and 012
WO# 2013-038

On May 28, 2013, the District received the above Mitigated Negative Declaration. The proposed project consists of 67 single Family lots, a park, approximately 5.6 acres of open space and a detention/ water quality basin. We have the following comments:

1. On Page 98, the 5 gpcd number (4th paragraph) does not make sense, please verify. **1-3-1**
2. Depending on the final sewer collection system design, it may be necessary to extend the existing 8 inch sewer line on Elizabeth Lane. **1-3-2**
3. The connection for water will be to the 12 inch line on Prielipp Road. A looped water system will be required; this will necessitate a water line extension. **1-3-3**
4. The capacity of the existing 8 inch sewer main and the Robards Way Lift Station appear to be adequate to handle the demands of this proposal. The applicant, at a future date, is expected to substantiate this by providing supporting engineering analysis. **1-3-4**

The Developer will be required to adhere to the Districts Development process, and pay all applicable fees. Please feel free to call Imad Baiyasi at (951) 674-3146, Ext. 8786, should you have any questions.

Respectfully,

Imad Baiyasi
Development Services Manager

IB/cb

cc: Paul S. Carver – EVMWD, Director of Engineering
File

F:\ENGIN\2_ Developer Projects\2013\13-038 - Tract 36497 (Lennar)\1, Planning\06-13-13 - Pre Application Review Letter - 13-038.docx

951.674.3146
Fax 951.674.9872
www.evmwd.com

31315 Chaney Street
P.O. Box 3000
Lake Elsinore, CA 92530

First Distribution
Response to Comment Letter 1-3
Elsinore Valley Water District

Elsinore Valley Municipal Water District
June 13, 2013

1-3-1 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. In this version of the IS/MND, the Utilities and Service Systems subsection has been revised. The commenter is referred to pages 108 through 110 of the IS/MND.

1-3-2 The possibility of the need to extend the existing 8 inch sewer line on Elizabeth Lane is acknowledged. The City is committed to working with the Elsinore Valley Municipal Water District (EVMWD) to ensure that wastewater systems are capable of meeting all needs. All development within the city is required to comply with the EVMWD's Design Standards and Standard Drawings in order to ensure the EVMWD has adequate infrastructure to meet the demand associated with development in the city. Any environmental effects associated with a possible extension of the existing sewer line would be negligible as such improvements would occur within a developed right of way. Potential environment effects would be no greater than that analyzed in the third and current IS/MND and therefore does not represent a "substantial revision" is defined as a new, avoidable significant effect which requires the addition of mitigation measures or project revisions in order to reduce the effect to insignificance, or a new, significant effect which cannot be mitigated to a less than significant level.

1-3-3 The possibility of the need to extend the water line on Prielipp Road is acknowledged. The City is committed to working with the EVMWD to ensure that water supply and delivery systems are capable of meeting normal and emergency needs. All development within the city is required to comply with the EVMWD's Design Standards and Standard Drawings in order to ensure the EVMWD has adequate infrastructure to meet the demand associated with development in the city. Any environmental effects associated with a possible extension of the existing sewer line would be negligible as such improvements would occur within a developed right of way. Potential environment effects would be no greater than that analyzed in the third and current IS/MND and therefore does not represent a "substantial revision" is defined as a new, avoidable significant effect which requires the addition of mitigation measures or project revisions in order to reduce the effect to insignificance, or a new, significant effect which cannot be mitigated to a less than significant level.

1-3-4 Please see Responses 1-3-2 and 1-3-3. All development within the city is required to comply with EVMWD standards.

Letter 1-4

Johnson & Sedlack
ATTORNEYS at LAW
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June 21, 2013

VIA US MAIL AND EMAIL

City of Wildomar
Attn: Planning Commission
23873 Clinton Keith Road, Suite 201
Wildomar, CA 92595

RE: Mitigated Negative Declaration and Initial Study for the Lennar Residential Project, TTM 36497 (PA 12-0364)

Greetings:

On behalf of concerned residents and Alliance for Intelligent Planning, I hereby submit these comments on the Mitigated Negative Declaration and Initial Study for, and in opposition to, the Lennar Residential Project.

General Comments:

The California Environmental Quality Act ("CEQA") was adopted as a disclosure and transparency document. The theory is that by providing a document that adequately describes the environmental consequences of a project to decision makers and the public, the decision makers will make a rational decision based upon the true environmental consequences of the project and if they do not, the electorate can hold them accountable for their decisions. The core of this statutory structure is the adequacy of the document as an informational document.

The EIR requirement is the "heart of CEQA." (State CEQA Guidelines § 15003(a). An EIR is required for any proposed project that may have a significant effect on the environment. (Public Resources Code § 21100 (a)) A lead agency may prepare a mitigated negative declaration for a proposed project only when: (1) revisions in the project would avoid or mitigate the potentially significant project effects to a point where *clearly* no significant effects would occur; and (2) there is no substantial evidence in light of the whole record that the project as revised *may* have a significant effect on the environment. (State CEQA Guidelines § 15070 (b))

Letter 1-4 Continued

June 21, 2013
Page 2

The adoption of a Mitigated Negative Declaration ("MND") for the Lennar Residential Project, TTM 36497 (PA 12-0364) (the "Project"), is improper where, as here, there is substantial evidence in the record of a fair argument of significant environmental impacts as a result of the project. For the reasons detailed below, an EIR must be prepared for this Project.

The project is likely to have significant impacts that were not adequately addressed in the MND. Specifically, there is a fair argument that the project will have significant impacts to/from, at least, aesthetics, air quality/health risks, biological resources, geology, greenhouse gas emissions, hazards/hazardous material, noise, traffic, and cumulative impacts. **1-4-1**

Furthermore, significant impacts are not shown to be mitigated below a level of significance. CEQA requires that, if mitigation is adopted for a project, all proposed mitigation measures be fully enforceable and certain to occur. This Project fails to ensure that mitigation will occur with this Project and instead provides vague, uncertain, and unenforceable mitigation measures. Mitigation measures are improperly deferred.

CEQA also requires that where feasible mitigation exists which can substantially lessen the environmental impacts of a project, ***all feasible mitigation*** must be adopted. In this way CEQA goes beyond its informational role to require that projects substantively lessen their negative effects on the environment. It is critical to proper drafting of an EIR that all feasible mitigation measures be required of a project. This has not been done with this Project. **1-4-2**

Overall, the conclusions in the MND are not based on substantial evidence.

Lastly, the Initial Study and Proposed Mitigated Negative Declaration were not circulated to the State Clearinghouse as required. **1-4-3**

Aesthetics

The site is currently undeveloped and existing land uses include rural residential and vacant lands to the west, north, and south. Despite these existing rural or vacant uses, the MND finds a less than significant impact to views or the scenic/ visual quality of the site from rezoning the site from Rural-Residential to Medium High Density Residential and developing accordingly. This finding is unsupported by the Project's existing zoning designation and lack of development, surrounding land uses and land use designations, and surrounding zoning designed to maintain a low-development density visual character on-site. **1-4-4**

Air Quality

The conclusions that the Project will result in a less than significant impact to air quality are unsupported by evidence. All assumptions relied on for the air quality modeling are not provided. Discrepancies in the air quality modeling cannot be discerned from the CalEEMod outputs alone. **1-4-5**

Letter 1-4 Continued

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Without evidence that air quality emissions will be less than significant, such emissions should be treated as significant. **1-4-5**

The following additional mitigation measures should be incorporated:

CONSTRUCTION IMPACTS

1. Gravel pads must be installed at all access points to prevent tracking of mud onto public roads.
2. Install and maintain trackout control devices in effective condition at all access points where paved and unpaved access or travel routes intersect (eg. Install wheel shakers, wheel washers, and limit site access.)
3. All roadways, driveways, sidewalks, etc., should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.
4. Pave all construction roads.
5. Pave all construction access roads at least 100 feet on to the site from the main road.
6. Limit fugitive dust sources to 20 percent opacity.
7. Require a dust control plan for earthmoving operations. **1-4-6**
8. When materials are transported off-site, all material shall be covered, effectively wetted to limit visible dust emissions, and at least six inches of freeboard space from the top of the container shall be maintained.
9. All streets shall be swept at least once a day using SCAQMD Rule 1186 certified street sweepers utilizing reclaimed water trucks if visible soil materials are carried to adjacent streets.
10. The contractor or builder shall designate a person or persons to monitor the dust control program and to order increased watering, as necessary, to prevent transport of dust offsite.
11. Post a publicly visible sign with the telephone number and person to contact regarding dust complaints. This person shall respond and take corrective action within 24 hours.
12. Extend grading period sufficiently to reduce air quality impacts below a level of significance.
13. The simultaneous disturbance of the site shall be limited to five acres per day.
14. Any vegetative cover to be utilized onsite shall be planted as soon as possible to reduce the disturbed area subject to wind erosion. Irrigation systems required for these plants shall be installed as soon as possible to maintain good ground cover and to minimize wind erosion of the soil.

Letter 1-4 Continued

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15. Any on-site stockpiles of debris, dirt or other dusty material shall be covered or watered three times daily.

16. Any site access points within 30 minutes of any visible dirt deposition on any public roadway shall be swept or washed.

17. A high wind response plan shall be formulated for enhanced dust control if winds are forecast to exceed 25 mph in any upcoming 24-hour period.

18. Implement activity management techniques including a) development of a comprehensive construction management plan designed to minimize the number of large construction equipment operating during any given time period; b) scheduling of construction truck trips during non-peak hours to reduce peak hour emissions; c) limitation of the length of construction work-day period; and d) phasing of construction activities.*

19. Develop a trip reduction plan to achieve a 1.5 AVR for construction employees

20. Require high pressure injectors on diesel construction equipment.*

21. Restrict truck operation to "clean" trucks, such as a 2007 or newer model year or 2010 compliant vehicles.* **1-4-6 cont.**

22. Require the use of CARB certified particulate traps that meet level 3 requirements on all construction equipment.*

23. Utilize only CARB certified equipment for construction activities.*

24. The developer shall require all contractors to turn off all construction equipment and delivery vehicles when not in use and/or idling in excess of 3 minutes.*

25. Restrict engine size of construction equipment to the minimum practical size.*

26. Use electric construction equipment where technically feasible.*

27. Substitute gasoline-powered for diesel-powered construction equipment.*

28. Require use of alternatively fueled construction equipment, using, e.g., compressed natural gas, liquefied natural gas, propane, or biodiesel.*

29. Use methanol-fueled pile drivers.*

30. Install catalytic converters on gasoline-powered equipment.*

31. Require the use of Alternative Diesel Fuels on diesel equipment used. Alternative diesel fuels exist that achieve PM10 and NOx reductions. PuriNOx is an alternative diesel formulation that was verified by CARB on January 31, 2001 as achieving a 14% reduction in NOx and a 63% reduction in PM10 compared to CARB diesel. It can be used in any direct-injection, heavy-duty compression ignition engine and is compatible with existing engines and existing storage, distribution, and vehicle fueling facilities.

Letter 1-4 Continued

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Operational experience indicates little or no difference in performance and startup time, no discernable operational differences, no increased engine noise, and significantly reduced visible smoke.

32. Electrical powered equipment shall be utilized in-lieu of gasoline-powered engines where technically feasible.*

33. All forklifts shall be electric or natural gas powered.*

34. Suspend use of all construction equipment operations during second stage smog alerts.*

35. Provide temporary traffic controls such as a flag person, during all phases of construction to maintain smooth traffic flow.*

36. Provide dedicated turn lanes for movement of construction trucks and equipment on- and off-site.*

37. Reroute construction trucks away from congested streets and sensitive receptor areas.*

38. Configure construction parking to minimize traffic interference.*

39. Prior to the issuance of a grading and building permit, the applicant shall submit verification that a ridesharing program for the construction crew has been encouraged and will be supported by the contractor via incentives or other inducements.*

40. Minimize construction worker trips by requiring carpooling and providing for lunch onsite. *

41. Provide shuttle service to food service establishments/commercial areas for the construction crew.*

42. Provide shuttle service to transit stations/multimodal centers for the construction crew.*

43. Require the use of Zero-VOC paints, coatings, and solvents.

(* Would reduce impacts to GHGs as well)

1-4-6 cont.

OPERATIONAL EMISSIONS

1. All buildings shall be constructed to LEED Platinum standards.*

2. Buildings shall exceed Title 24 requirements by 30%.*

3. Orient 75 percent or more of homes and buildings to face either north or south (within 30 degrees of N/S) and plant trees and shrubs that shed their leaves in winter nearer to these structures to maximize shade to the building during the summer and allow sunlight to strike the building during the winter months.*

4. Design buildings for passive heating and cooling and natural light, including building orientation, proper orientation and placement of windows, overhangs, skylights, etc.*

1-4-7

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5. Construct photovoltaic solar or alternative renewable energy sources sufficient to provide 100% of all electrical usage for the entire Project.*

6. Install an ozone destruction catalyst on all air conditioning systems.*

7. Construct renewable energy sources sufficient to offset the equivalent of 100% of all greenhouse gas emissions from mobile sources (internal combustion engines) for the entire Project. *

8. Purchase only green/ renewable power from the electric company.*

9. Install solar water heating systems to generate all hot water requirements.*

10. Install solar water heating systems for the pool and wading pool.*

11. Utilize electrical equipment for landscape maintenance.*

12. Plant shade trees in parking areas to provide minimum 50% cover to reduce evaporative emissions from parked vehicles.*

13. Plant at least 50 percent low-ozone forming potential (Low-OFP) trees and shrubs, preferably native, drought-resistant species, to meet city/county landscaping requirements.* **1-4-7 cont.**

14. Plant Low-OFP, native, drought-resistant, tree and shrub species, 20% in excess of that already required by city or county ordinance. Consider roadside, sidewalk, and driveway shading.*

15. Provide grass paving, tree shading, or reflective surface for unshaded parking lot areas, driveways, or fire lanes that reduce standard black asphalt paving by 10% or more.*

16. Electrical outlets shall be installed on the exterior walls of all residential and commercial buildings (and perhaps parking lots) to promote the use of electric landscape maintenance equipment.*

17. Prohibit gas powered landscape maintenance equipment within the development. Require landscape maintenance companies to use battery powered or electric equipment **or** contract only with commercial landscapers who operate with equipment that complies with the most recent California Air Resources Board certification standards, or standards adopted no more than three years prior to date of use or any combination of these two themes.*

18. Provide a complimentary cordless electric lawnmower to each buyer if private lawns will exist in the development.

19. Create a light vehicle network, such as a neighborhood electric vehicle (NEV) system.*

20. Provide direct, safe, attractive pedestrian access from project to transit stops and adjacent development.*

Letter 1-4 continued

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21. Provide safe, direct bicycle access to adjacent bicycle routes.*

22. Connect bicycle lanes/paths to city-wide network.*

23. Provide a display case or kiosk displaying transportation information in a prominent area accessible to residents.

(* Would reduce impacts to GHGs as well)

1-4-7 cont.

HEALTH RISKS

The MND fails to adequately disclose and assess health risk impacts. The MND looks to CARB's Land Use and Air Quality Handbook, as well as the Sacramento Metropolitan Air Quality Management District's protocol, but fails to look to the protocols and guidance provided by SCAQMD. SCAQMD's MATES studies monitored TACs for the basin including PM and diesel PM and expressed cancer risks in the SCAB. MATES III study found an existing estimated carcinogenic risk at the Project site of 320 per million. (<http://www3.aqmd.gov/webappl/matesiii/> MATES Model Estimated Carcinogenic Risk) The MND seems to completely ignore this risk, finding that the Project would not exceed a 276 per million threshold in the Recommended Protocol for Evaluating the Location of Sensitive Land Uses Adjacent to Major Roadways. It plainly would based on SCAQMD modeling.

1-4-8

Additional SCAQMD guidance on siting of sensitive land uses includes <"AQMD Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning," <http://www.aqmd.gov/prdas/aqguide/doc/aq_guidance.pdf>, May 6, 2005, Section 2-1. At page 2-5, the document states SCAQMD/CARB data has shown a reduction of cancer risk from freeway diesel PM of 60% at 328 feet and 80% at 984 feet. This Project is 485 feet from the freeway so still subject to around 40% of highway-caused emissions <u>in addition to ambient pollutant concentrations</u>. (*Id.* at 2-5, 2-6.) The MND ignores the impact from Project siting plus ambient pollutant concentrations, which will likely be a significant risk requiring analysis in an EIR. Health risks from Project siting near I-15 could be reduced/mitigated by adopting an alternative which sites the Project farther from the highway.

Additional mitigation may be achieved through informing potential residents of the health risks posed by diesel PM. Diesel PM is known to cause immune system effects; reproductive, developmental, and endocrine effects; nervous system effects; and lung health problems, as recognized by the County in the General Plan. Immune system effects include increased allergic inflammatory responses and suppression of infection fighting ability. Diesel PM has also been associated with reproductive effects such as decreased sperm production, changes in fetal development, low birth weight and other impacts. Diesel PM exposure may also cause impairment to the central nervous system. (*The Health Effects of Air Pollution on Children*, Michael T. Kleinman, Ph.D, Fall 2000, <http://aqmd.gov/forstudents/health_effects_on_children.html#WhyChildren>; *See also, Diesel*

Letter 1-4 Continued

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and Health in America: the Lingering Threat, Clean Air Task Force, February 2005, <http://www.catf.us/resources/publications/files/Diesel_Health_in_America.pdf>)

With regards to respiratory and cancer effects of diesel PM, SCAQMD has stated the following:

> "Diesel particles consist mainly of elemental carbon and other carbon-containing compounds… Diesel particles are microscopic…Due to their minute size, diesel particles can penetrate deeply into the lung. There is evidence that once in the lung, diesel particles may stay there for a long time.
>
> In addition to particles, diesel exhaust contains several gaseous compounds including carbon monoxide, nitrogen oxides, sulfur dioxide and organic vapors, for example formaldehyde and 1,3-butadiene. Formaldehyde and 1,3-butadiene have been classified as toxic and hazardous air pollutants. Both have been shown to cause tumors in animal studies and there is evidence that exposure to high levels of 1,3-butadiene can cause cancer in humans…
>
> Diesel emissions may also be a problem for asthmatics. Some studies suggest that children with asthma who live near roadways with high amounts of diesel truck traffic have more asthma attacks and use more asthma medication.
>
> Some human volunteers, exposed to diesel exhaust in carefully controlled laboratory studies, reported symptoms such as eye and throat irritation, coughing, phlegm production, difficulty breathing, headache, lightheadedness, nausea and perception of unpleasant odors. Another laboratory study, in which volunteers were exposed to relatively high levels of diesel particles for about an hour, showed that such exposures could cause lung inflammation." (*The Health Effects of Air Pollution on Children, supra*; *See also, Mira Loma Commerce Center EIR No. 450, Air Quality, Section 4.*)

1-4-8 cont.

Furthermore, infants, children, and the elderly are more susceptible to diesel PM and its associated health impacts. With regards to infants and children, increased susceptibility to TACs and diesel PM exists for a variety of reasons. Children are generally more active than adults, have higher respiration rates, and inhale more pollutants deeper into the lung. Children also have more lung surface area in proportion to their body size and inhale more air pound for pound when compared to adults, taking in 20 to 50 percent more air and associated air pollutants than adults. When compared to adults, children spend more active time outdoors in polluted air environments and exert themselves harder than adults when playing outside. Importantly, this exposure to high pollutant levels in children occurs while their lungs are still developing, and therefore has more severe impacts on this sensitive group. (*The Health Effects of Air Pollution on Children, supra.*)

This increased susceptibility to air pollutant emissions for children has resulted in the California EPA Office of Environmental Health Hazard Assessment ("OEHHA") weighting cancer risk by a factor of 10 for exposures to carcinogens from birth to two years old, and by a factor of 3 for exposures from 2 years old to 15 years old. (*Technical Support Document for Cancer Potency Factors: Methodologies for derivation, listing of available values, and adjustments to allow for*

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early life stage exposures, California EPA OEHHA Air Toxicology and Epidemiology Branch, April 2009, p. 3. <http://www.oehha.ca.gov/air/hot_spots/pdf/TSDCPFApril_09.pdf.>) It is unclear that these increased risks were accounted for in the EIR. Additionally, recent studies conducted by SCAQMD's Brain and Lung Tumor and Air Pollution Foundation have found a specific connection between exposure to diesel PM and brain cancer in children. (Annual Meeting of the Brain & Lung Tumor and Air Pollution Foundation, April 2, 2010, <http://www.aqmd.gov/hb/2010/April/100425a.htm>) **1-4-8 cont.**

In addition to an increased risk of cancer, the effects of diesel PM on children include slowed lung function and growth, increased emergency room visits, increased incidences of asthma and bronchitis, crib death, asthma respiratory infections, allergic symptoms, and asthma hospitalizations. (*Diesel and Health in America: the Lingering Threat, supra.*) Informing potential residents of these risks may mitigate these effects by residents choosing to remain indoors.

Additionally, the MND fails to evaluate potential health risks caused by the Project and increased traffic to off-site sensitive receptors. The Traffic Study conspicuously omits to evaluate impacts at Clinton Keith and I-15, to the roadway segments, on/off-ramps, and the highway itself. The Project's contribution to this traffic may result in increased health risks to receptors near this interchange, which has already been forced to expand because of existing "explosive growth" and ever "increasing backups in the area for vehicles approaching the interstate." (<http://www.pe.com/local-news/riverside-county/wildomar/wildomar-headlines/20120323-wildomar-clinton-keith-road-widening-to-start.ece>) Increasing traffic and idling in this area could result in significant health risks from the Project to sensitive receptors in excess of SCAQMD's 10 cancer per million threshold. As the MND fails to consider this potential impact, it fails to show that no potential risks would occur. **1-4-9**

Biological Impacts

The Project is likely to result in significant and unmitigated biological impacts to at least riparian habitat, wetlands, and burrowing owls. Preparation of an EIR and further study is essential.

BURROWING OWLS

The MSHCP requires the preparation of a habitat assessment, which does not appear to have occurred after review of the Habitat Assessment and MSHCP Consistency Analysis. Instead, the analysis merely states that a habitat assessment is required for the burrowing owl. "Suitable burrows were observed onsite, so a full protocol survey would be required." Based on the findings of that survey, either relocation and/or a 30-day preconstruction survey would be required. (*See,* Habitat Assessment and MHSCP Consistency Analysis p. 37.) The mitigation in the MND thus either defers or completely omits the requirements for preparation of this survey. **1-4-10**

While the MND appears to have relied on some preliminary surveying, there is no assessment detailing the areas surveyed, any potential burrows found, any burrowing owls observed onsite,

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or any other information that would allow the City to determine that impacts to the owls could be sufficiently mitigated *below a level of significance.* No methodology, mapping, etc. is provided in the MND, despite CEQA's call for information disclosure and evidence in support of any determination. There is simply no evidence demonstrating that impacts to the owls were evaluated and, based on the findings of that evaluation, may be adequately mitigated.

Moreover, based on the evidence in the MND it is apparent that impacts to the owls may be significant and not mitigable. The MND/ Habitat Assessment found that several (at least 3) suitable burrows exist within the central portion of the Project site (it is not clear if suitable burrows were found in any surveys of the remainder of the site). It is not clear whether any burrowing owls were sought or discovered onsite, but they plainly may be impacted by the Project.

Mitigation is insufficient and will not *clearly* reduce impacts to the owls below a level of significance. A recent "Staff Report on Burrowing Owl Mitigation" by the Department of Fish and Game found that 1) passive relocation is ineffective and 2) construction must occur further from nesting sites to mitigate for impacts to the owls. The Staff Report provides updated guidance on the distance necessary from nesting sites based on construction disturbance, and new methods for passive relocation of burrowing owls. This guidance must be incorporated into any successful mitigation. ("Staff Report on Burrowing Owl Mitigation," State of California Natural Resources Agency, Department of Fish and Game March 7, 2012, <http://www.dfg.ca.gov/wildlife/nongame/docs/BUOWStaffReport.pdf>) It is clear from the mitigation measures below that further information and evaluation is needed before mitigation may be implemented or determined to be successfully implementable. **1-4-10 cont.**

To ensure adequate mitigation of impacts to the owls, the following additional mitigation measures, in lieu of or in addition to of Bio-2 and Bio-3 must be incorporated into the Project:

1. Where habitat will be temporarily disturbed, restore the disturbed area to pre-project condition including decompacting soil and revegetating. Permanent habitat protection may be warranted if there is the potential that the temporary impacts may render a nesting site (nesting burrow and satellite burrows) unsustainable or unavailable depending on the time frame, resulting in reduced survival or abandonment.

2. Mitigate for permanent impacts to nesting, occupied and satellite burrows and/or burrowing owl habitat such that the habitat acreage, number of burrows and burrowing owls impacted are replaced based on site-specific analysis and accounting for natal area, home range, foraging area, and other factors influencing burrowing owls and burrowing owl population persistence in the project area.

3. Mitigate for permanent impacts to nesting, occupied and satellite burrows and burrowing owl habitat with (a) permanent conservation of similar vegetation communities (grassland, scrublands, desert, urban, and agriculture) to provide for burrowing owl nesting, foraging, wintering, and dispersal (i.e., during breeding and non-breeding seasons) comparable to or better than that of the impact area, and (b) sufficiently large acreage, and presence of fossorial mammals.

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4. Alternatively, where a burrowing owl population appears to be highly adapted to heavily altered habitats such as golf courses, airports, athletic fields, and business complexes, permanently protecting the land, augmenting the site with artificial burrows, and enhancing and maintaining those areas may enhance sustainability of the burrowing owl population onsite. Maintenance includes keeping lands grazed or mowed with weedeaters or push mowers, free from trees and shrubs, and preventing excessive human and human-related disturbance (e.g., walking, jogging, off-road activity, dog-walking) and loose and feral pets (chasing and, presumably, preying upon owls) that make the environment uninhabitable for burrowing owls

5. Permanently protect mitigation land through a conservation easement deeded to a nonprofit conservation organization or public agency with a conservation mission, for the purpose of conserving burrowing owl habitat and prohibiting activities incompatible with burrowing owl use. If the project is located within the service area of a Department approved burrowing owl conservation bank, the project proponent may purchase available burrowing owl conservation bank credits. **1-4-10 cont.**

6. Fund the maintenance and management of mitigation land through the establishment of a long-term funding mechanism such as an endowment.

A habitat assessment that complies with MSHCP criteria, and adequate mitigation based on that information, is absolutely essential and was not complied with here. As the MND fails to conduct a needed study for impacts to burrowing owls, impacts remain potentially significant and an EIR must be prepared. Regardless, an EIR must be prepared as impacts are not demonstrably reduced below a level of significance with mitigation incorporated.

RIPARIAN/RIVERINE HABITAT

Wetland habitat of moderate to high quality habitat exists onsite and may be significantly impacted by the Project. Six out of nine wetland indicator functions are present onsite.

Two drainage features occur onsite, including the "main drainage" feature on the western portion of the site, which includes a dense canopy of riparian vegetation (including cottonwoods and willow) and wetlands. The second feature is an "upland swale" that occurs in the eastern portion of the site and includes a dense stand of cottonwoods and willow. 3.72 acres of Riversidean Sage Scrub and 2.01 acres of Southern Cottonwood-Willow Riparian Forest exist onsite. **1-4-11**

The MND and Habitat Assessment and MSHCP Consistency Analysis only evaluate and disclose potential wetland habitat impacts from Project construction, not operation. There is no consideration of impacts to this habitat once the Project is developed and residents occupy the site. The MND does not consider impacts caused by Project noise, lighting, pollutants, invasive plants, resident intrusion, etc. to these important habitat areas.

Project characteristics and mitigation measures are insufficient to ensure that no operational

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biological impacts may occur; hence an EIR is required. Avoidance of these areas is asserted in the MND but not required or implemented. Will there be fencing or signage indicating that avoidance is necessary? Other requirements to reduce below significance impacts from noise, lighting, plants, etc.? Such potential impacts, or mitigation for those impacts to habitat, are simply not considered or mitigated in the MND. As the potential for significant effects exists, adoption of an MND in lieu of full EIR preparation is improper.

Likewise, indirect and cumulative Project impacts to wetland habitat and wildlife are ignored in the MND. Again, the MND fails to evaluate, mitigate and disclose Project effects, and any findings needed to adopt the MND are unsupported.

A DBESP will be required for this Project if the applicant cannot avoid the riparian/riverine habitats. First, the MND repeatedly states that the riparian/riverine habitat will be completely avoided; plainly this is not actually anticipated. Second, the DBESP should be included in the MND to disclose how habitat takes will be mitigated and/or avoided. Without this disclosure prior to Project approval and subject to review by the public and decision-makers, any determination that no significant impacts may occur with the Project is unsupported. Bio-4 and Bio-6 are vague absent this information prior to Project approval. The Project must demonstrably require and achieve off-site mitigation within the County in order to preserve similar type and amount of habitat. **1-4-11 cont.**

The site also contains potential habitat for the Riverside fairy shrimp. The only assessment for the fairy shrimp was conducted in the dry season, and found no evidence of fairy shrimp. Nevertheless the Habitat Assessment and MSHCP Consistency Analysis concluded that Protocol Surveys were required, and that survey concluded that, "Under the standard USFWS protocol, an additional wet season sample is required to complete a full fairy shrimp protocol survey. An additional wet season survey may be required if suitable habitat occurs within the Project site during the 2012/2013 rainy season…." No such survey has been conducted or required.

JURISDICTIONAL WETLANDS

Jurisdictional wetlands also occur onsite, which may be subject to USACE, RWQCB, and CDFW jurisdiction. The Project site contains 0.17 acres of USACE waters, 0.21 acres of RWQCB waters, and 0.90 acres of Streambed for CDFG purposes comprising 0.17 acres of unvegetated streambed plus 0.73 acres of adjacent riparian habitat.

Again, potential operational impacts to these wetlands are completely overlooked in the MND. Instead, only construction impacts are considered. **1-4-12**

In addition, specific water discharge requirements are necessary to reduce Project impacts to jurisdictional waters according the recommendations of the Habitat Assessment, but are not disclosed in the MND or required of the Project as a mitigation measure.

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MSHCP SPECIES

Surveys are required by the MSHCP but not undertaken for the 6 covered species which occur on site and may require surveys. Again, the MND fails to provide necessary information to the public and decisionmakers on which a finding of less than significant impacts may be made. Adoption of an MND absent this evidence is improper. **1-4-13**

OTHER BIOLOGICAL RESOURCES

Additional biological resources exist onsite and will be impacted by this Project as the Project is inconsistent with the MSHCP requirements. The Project site contains marginally-suitable habitat for least Bell's vireo, which, according to the Habitat Assessment, dictates a focused survey for least Bell's vireo. No focused survey has been prepared and incorporated in the MND, and no focused survey has been required in any deferred study in the mitigation measures. Potentially significant impacts to least Bell's vireo may therefore occur, are not adequately evaluated, and are not reduced below a level of significance through the incorporation of mitigation. **1-4-14**

In addition, one coastal California gnatcatcher was observed onsite, and the site contains suitable nesting habitat for a variety of species. It is apparent given the biologically significant resources onsite, the lack of analysis of Project impacts to those resources, and the lack of mitigation incorporated for potential impacts, that the Project may result in significant biological effects. Preparation of an EIR is required.

Geology/Soils

The MND indicates that "a branch of the Elsinore Fault Zone (Glen Ivy Segment)" may transect the Project site. It is not clear whether investigation into the existence of this branch was undertaken in the Geosoils review of the site, or whether Geosoils was informed of the mapping of this fault through the site. Regardless, the statement that "there is no evidence of a known fault on the project site" is false.

The recommendations of the Preliminary Geotechnical Report, Appendix 6, must be incorporated as mitigation measures to ensure that they are certain, enforceable, and fully incorporated into the Project. The requirement for post-tension foundations should also be incorporated, particularly where it is unclear whether a fault transects the site. **1-4-15**

The Geotechnical Report finds that the soils are corrosive to moderately corrosive and that consultation with a corrosion engineer may be needed. Evaluation and determination by a corrosion engineer must be undertaken prior to Project consideration by decision-makers to determine whether significant impacts from corrosion may, in fact, occur.

Subdrain systems must be required in canyon areas to ensure that seepage does not occur.

Over-excavation of the Project site to a depth of 2-4 feet, up to 8 feet and deeper, is anticipated

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across the Project site. While some material may be reused, some may require exportation and importation of new soils. The MND provides no discussion of the potential amount of soils to be imported/exported, or potential construction air quality and traffic impacts of this soils work. **1-4-15 cont.**

GHGs

The MND omits discussion of whether the Project will comply with state policies to reduce GHG emissions, and to meet the goals of AB 32. The Project will not. For instance, the Project does not comply with the million solar roofs initiative or other goals designed to reduce GHGs. The MND fails to show that the Project will have no significant impact to GHG absent detailing whether it complies with the goals of the state. **1-4-16**

Hazards/HazMat

The Project is located 0.23 miles from a RCRA site reported as a "Large Quantity Generator," at 24487 Prielipp Road. This impact was determined to be less than significant because no reported violations or released have occurred. However, the assessment concerning this impact ignores the fact that this Project's utilities will connect at Prielipp Road, and any potential impacts from such connection.

Regarding fire hazards, the Project is located in a "Very High Fire Severity Zone" yet impacts are deemed less than significant with the incorporation of mitigation. The proposed mitigation, however, is insufficient. Appendix 8a details what is necessary for adequate mitigation, which includes some defensible space and planting requirements *and also* radiant heat walls surrounding homes on the perimeter; however this needed mitigation is not required of the Project. The finding that impacts will be less than significant with mitigation incorporated is therefore unsupported by the Fire Behavior and Fuel Modification Report which mandates the incorporation of additional measures to reduce any potential fire risk below a level of significance. **1-4-17**

There is also no consideration of impacts to *people* from fire hazards, as mandated for review by the threshold question: would the project "Expose *people* or structures to a significant risk of loss, injury, or death involving wildland fires…" [emphasis added] The MND only considers the risk to structures. Potential impacts from lack of adequate evacuation, smoke (versus only flames), etc. are not considered. Given that the Project is located in a Very High Fire Severity Zone, this omission may be injurious to the future residents. At the very least, this omission renders inadequate the MND and its findings of less than significant hazards impacts.

Hydrology/Water Quality

The Project contains riparian/riverine habitat and wetlands, and drains to the Santa Margarita watershed. Any polluted runoff may therefore have significant ramifications for the quality of those waterways. **1-4-18**

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The MND states that the fact that the City must comply with an MS4 permit from the San Diego RWQCB somehow will render this Project's runoff impacts null and void, yet this is not shown by the MND's reasoning. Likewise, while a preliminary WQMP apparently includes requirements to be followed by this Project, the WQMP is not disseminated with or incorporated into the MND. Without this information, the findings of the MND in reliance on that plan are unsupported by evidence. There is no evidence that operational water quality impacts will be less than significant or mitigable below a level of significance. **1-4-18 cont.**

Noise

The evaluation of noise in the MND and noise study prepared for the MND omit consideration of increases in either construction noise or operational noise in ambient noise levels. The MND states that noise increases would be similar to those experienced elsewhere in the City but fails to quantify those increases. Noise increases may be particularly significant on this presently undeveloped site in an area with rural residences, as the existing noise levels are relatively low so that increases may be more markedly perceived.

Under CEQA, consideration must be given to the magnitude of any noise increase, the existing ambient noise levels, and the location of noise-sensitive receptors in order to determine if a noise increase represents a significant adverse environmental effect. This is because noise impacts may be greater if substantial increases occur in a relatively quiet area, or if noise is added to an existing high noise level in a manner that increases noise to a problem/tipping point level. (*See, e.g., Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1122-23.) Attachments to this document better detail the properties of noise and its potential effects on people. Preparation of an EIR is needed to quantify, disclose, and mitigate the noise impacts of this Project to the extent feasible. **1-4-19**

The Noise Study fails to disclose actual noise levels likely experienced with Project construction and operation. Mitigation adopted for construction noise impacts will not demonstrably reduce such impacts below a level of significance. Limiting the hours of construction does nothing to reduce the noise levels experienced when construction is ongoing.
The following mitigation measures must be adopted:

1. Where technically feasible, utilize only electrical construction equipment
2. During construction, the developer shall require that all contractors turn off all construction equipment and delivery vehicles when not in use and prohibit idling in excess of 3 minutes.
3. Provide upgraded windows with a minimum Sound Transmission Class (STC) rating of 34 for all buildings, and/or require the installation of double-paned windows.
4. Keep new transportation facilities away from vibration sensitive areas.
5. Require the use of rubberized asphalt for construction of all roadways and parking areas.

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6. Maintain quality pavement conditions that are free of bumps, pot holes, pavement cracks, differential settlement in bridge approaches or individual pavement slabs, etc.
7. Require resurfacing of roads.
8. Ban heavy trucks near the Project.
9. Use alternate construction methods and tools to reduce construction vibrations. Examples are predrilling of pile holes, avoiding cracking and seating methods for resurfacing concrete pavements near vibration sensitive areas, using rubber tired as opposed to tracked vehicles, placing haul roads away from vibration sensitive areas.

1-4-19 cont.

Traffic/ Transportation

As discussed above, the MND omits consideration of impacts along roadway segments, at Clinton Keith Rd. and I-15 on-/off-ramps, and along I-15, despite the fact that most Project trips will use Clinton Keith to access I-15. This omission renders the MND and its determination that the Project will have a less than significant impact utterly inadequate and unsupported.

An adequate cumulative impacts assessment, as discussed below, is especially important with respect to these potential traffic effects. The MND's fractional discussion of impacts to I-15 is deceptive- while the Project may account for only .24 percent of daily vehicle counts on I-15 at Clinton Keith, it may cumulatively and significantly impact the traffic levels along the highway. Moreover, it will likely cumulatively and significantly impact traffic levels at Clinton Keith and local roadway segments, where the MND only considered intersection delays. An EIR is again needed to assess and disclose these potentially significant effects.

Construction traffic impacts are also not evaluated or mitigated. As construction traffic impacts may be significant, the following mitigation measures must be incorporated:

1-4-20

1. Provide temporary traffic controls such as a flag person, during all phases of construction to maintain smooth traffic flow.
2. Provide dedicated turn lanes for movement of construction trucks and equipment on- and off-site.
3. Reroute construction trucks away from congested streets and sensitive receptor areas.
4. Configure construction parking to minimize traffic interference.
5. Prior to the issuance of a grading and building permit, the applicant shall submit verification that a ridesharing program for the construction crew has been encouraged and will be supported by the contractor via incentives or other inducements.
6. Minimize construction worker trips by requiring carpooling and providing for lunch onsite.

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7. Provide shuttle service to food service establishments/commercial areas for the construction crew.
8. Provide shuttle service to transit stations/multimodal centers for the construction crew.
9. Improve traffic flow by signal synchronization.
10. Work with Caltrans to ensure adequate LOS at impacted on- and off-ramps.

1-4-20 cont.

Mitigation for operation impacts may include several of the measures detailed within the air quality section of this letter, such as ride sharing programs. Other mitigation may include road improvement requirements; however, given the absence of needed information in the MND, the necessary requriements are uncertain.

Public Services and Utilities

The MND contains no "will-serve" letter or similar information from EVMWD stating it has sufficient resources to provide water to this Project. The MND fails to demonstrate that supplies are sufficient, stating only the supply of EVMWD but not the current demands of other projects on EVMWD's limited supplies. Instead, the MND again makes the argument that this Project's incremental increase/ fraction of the total supply is not significant. This fractional reasoning does not show that, in fact, EVMWD has available supplies to serve this Project.

It is a well-known fact that water supplies in California are scarce and subject to additional scarcity and risk from reduced supplies. Adding additional demand to this already short supply of water will either result in this project failing to receive water from EVMWD and/or unavailability of sufficient water supplies for other uses in the area. The lack of available water could also result in fire hazards due to low fire flow to either the project or neighbors reliant on water supplies, an impact also not considered with the project. This project is therefore likely to have a significant impact on water supply, and an EIR must be prepared.

1-4-21

Impacts to the water supply from landscaping are not detailed in the MND. There is no discussion about whether recycled water is available or required at the site for this purpose.

The following additional mitigation measures should also be implemented for this Project to reduce impacts to the water supply:

1. Use only recycled water for landscaping purposes. Require installation of a recycled water line to the Project.
2. Utilize low water intensive turf or artificial turf. Minimize the use of turf/ artificial turf to recreational areas.
3. Install only ultra-low-flow plumbing fixtures in all buildings.
4. Install only dual flush toilets, which allow users to choose a larger or smaller flush as needed.

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5. Require drip irrigation for landscaping where technically feasible.
6. Require mulching or equivalent organic ground cover to reduce water needs for all landscaped areas.
7. Require that any pool be covered at night and when not in use to reduce water loss through evaporation.
8. Provide all residents with free shower timers to help reduce time spent showering.

1-4-21 cont.

Cumulative Impacts

The cumulative impact assessment for this Project is absolutely unacceptable and negligible. First, there is no discussion of what cumulative projects were considered. Was the 270-unit Oak Creek Canyon project considered, where it would result in a 2.7 percent increase in the population of Wildomar and a 2.5 percent increase in the number of homes within the City? Were other nearby projects considered? The conclusions in the MND regarding potential cumulative effects are utterly unsupported by evidence or reasoning.

The cumulative impact assessment also appears to miss the point of a cumulative assessment - that is, impacts may be individually insignificant but cumulatively considerable. Most of the MND's "evaluation" of cumulative effects does nothing more than reiterate that individual impacts were deemed insignificant or mitigable. Again, the MND fails to show that no potentially significant cumulative impacts would occur with this Project. In fact, if local projects are considered it's likely that this Project would cumulatively effect noise, traffic, biological resources, aesthetics, GHGs, water quality, and other environmental resources. An EIR is essential to adequately consider such impacts.

1-4-22

Conclusion

Thank you for your consideration of these comments and the attached material.

Sincerely,

Raymond W. Johnson
JOHNSON & SEDLACK

First Distribution
Response to Comment Letter 1-4
Johnson & Sedlack
June 21, 2013

1-4-1 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. In this version of the IS/MND, it was determined that no significant impacts would occur. The commenter raises no specific comments regarding the adequacy of the IS/MND.

1-4-2 The commenter alleges that the mitigation measures included in the IS/MND are vague, uncertain and unenforceable or are improperly deferred. The commenter also suggests that all feasible mitigation must be adopted. The IS/MND contains numerous mitigation measures and all of the measures have an identified specific timing requirements and responsible agencies. The commenter is not specific as to which mitigation measure(s) are considered inadequate. While the commenter is incorrect in the assertion that all feasible mitigation measures must be adopted, the IS/MND public review process is intended to determine if additional mitigation is necessary to address impacts associated with the proposed project. The commenter does not suggest new mitigation. The commenter states an opinion that the IS/MND conclusions are not based on substantial evidence, but does not indicate which conclusions lack evidence.

1-4-3 The commenter states that the IS/MND was not circulated to the State Clearinghouse as required. The commenter is incorrect that all IS/MNDs must be circulated to the Clearinghouse. As stated in CEQA Guidelines section 15073(a), an agency is allowed to circulate the document for a minimum of 20 days except when the document is sent to the Clearinghouse. Section 15073(d) states:

> (d) Where one or more state agencies will be a responsible agency or a trustee agency or will exercise jurisdiction by law over natural resources affected by the project, or where the project is of statewide, regional, or areawide environmental significance, the lead agency shall send copies of the proposed negative declaration or mitigated negative declaration to the State Clearinghouse for distribution to state agencies.

The initial IS/MND was not required to be sent to the Clearinghouse as it did not meet the criteria for (d) because the project did not involve state, regional or other responsible or trustee agencies. However, based upon subsequent revisions of the initial IS/MND, the subsequent second and third draft IS/MNDs were circulated to the state and received a state clearinghouse number of 2013111061.

1-4-4 Please refer to Response 2-4-1. The commenter does not suggest there are any potential impacts to scenic vistas or resources or potential impacts from the creation of substantial light or glare, though does suggest that the project would result in impacts to the visual character of the project site and its surroundings. As stated on Page 29 of the third and current version of the IS/MND, the proposed project is located on an undeveloped site that is located between very high density and medium density residential areas (east and south of the project site), an industrial park (west of the project site), and undeveloped land to the north. Appendix 1a of the IS/MND includes site photos that illustrate the current conditions of the proposed project site and adjacent land. Development of the proposed project would be consistent with the existing residential development occurring to the east and south of the proposed project site (IS/MND Appendix 1c). Views from homes to the south of the project site will not be affected due

to a significant existing grade change from the project site down to the existing homes (IS/MND Appendix 1a). Therefore, the third and current IS/MND correctly determined that the project would result in less than significant impacts to the visual character of the project site and its surroundings since the proposed improvements are similar to others in the city and the project is consistent with the zoning for the site.

As described on page 30 of the IS/MND, the site is disturbed and is characterized by patches of weedy vegetation and a large drainage feature and smaller man made pond and swale area. The proposed project would grade the site to allow the construction of roadways and building pads for the homes, a park and an open space area, and a detention/water quality basin. The grading is necessary to reduce roadway slopes and result in building pads similar to others in the area. Approximately 5.57 acres of the site will remain in open space as part of the project. The open space number is higher, if the park and detention basin are counted. The proposed project will result in buildings along paved roadways with sidewalks, fire hydrants, post office boxes, and streetlights similar to other development in the city. The improvements are similar to others in the city and the project is consistent with the zoning for the site.

1-4-5 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. By the time of drafting this version of the IS/MND, the air emissions modeling software had been updated in a manner that provides all relevant modeling inputs, which can be found in Appendix 3 of the third and current IS/MND.

1-4-6 According to Table 3-2 on page 34 of the third and current Initial Study, no construction emissions exceed the SCAQMD threshold. Thus, no mitigation measures were required.

1-4-7 According to Table 3-2 on page 34 of the third and current Initial Study, no operational emissions exceed the SCAQMD threshold. Thus, no mitigation measures were required.

1-4-8 Please refer to Responses 3-2-1 and 3.2-2.

1-4-9 Please refer to Responses 3-2-1 and 3.2-2.

1-4-10 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. As stated on page 50 of this version of the IS/MND, a focused study for burrowing owls was conducted at the project site by First Carbon Solutions in September 2013 (see IS/MND Appendix 4b). The study determined that suitable habitat for burrowing owls does exist even though there are no burrowing owls currently at the site. The Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) requires that surveys for the burrowing owl be conducted as part of the environmental review process. Burrowing owl survey requirements are broken into three steps by the Riverside Conservation Authority (RCA): Step I Habitat Assessment, Step II Locating Burrows and Burrowing Owls, and Step III Reporting Requirements. The analysis provided in the draft MND complies with Step I, and mitigation measures BIO-2 and BIO-3 ensure that Steps II and III will be met. Mitigation measure BIO-3 further requires that if any burrowing owls are found to be present on the site, any relocation activity must be submitted to and approved by the California Department of Fish and Wildlife. In addition, mitigation measure BIO-1 requires that the project applicant shall conduct construction and clearing activities outside of the avian nesting season, where feasible.

1-4-11 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. As stated on page 53 of this version of the IS/MND, the project site contains two

riparian/riverine features that are protected under the MSHCP and potentially impacted by the proposed project activities. Feature 1, as described in Table 4 1 (IS/MND page 46) and shown on Figure 5 (IS/MND page 47), consists of an earthen channel and southern cottonwood forest totaling 1.88 acres. As shown in Figure 5, the proposed project avoids this sensitive area in its entirety, as well as the 3.69 acres of adjacent upland habitat; however, additional mitigation is needed to ensure the long term maintenance and appropriate oversight of the area. A Determination of Biological Equivalent or Superior Preservation (DBESP) was prepared to identify appropriate mitigation. IS/MND mitigation measure BIO 4 will ensure that Feature 1's 1.88 acres of riverine/riparian habitat plus the additional 3.69 acres of adjacent upland habitat that is adjacent to Feature 1's riverine/riparian area 1 (5.57 acres total) will be preserved. Mitigation measure BIO 4 also requires that the preserved area be improved through the removal of trash, debris, and non native species. Further, the measure requires that a biologist prepare a Habitat Management Plan (HMP) that establishes standards and an operating budget for ongoing maintenance of the preserved area. This measure also requires that the project homeowners association (HOA) maintain the preserved area and that a biologist oversee the first two years of maintenance by the HOA.

Feature 2, as described in Table 4-1 and shown on Figure 5 of the IS/MND, contains a man-made pond, adjacent southern cottonwood willow riparian forest habitat and associated swales. There is no suitable area within the project site to replace these features in kind. Therefore, off-site mitigation is included as mitigation measure BIO-7. Off-site mitigation would be in the form of purchased mitigation credits from the Elsinore Murrieta Anza Resource Conservation District (EMARCD). The applicant has indicated that EMARCD has confirmed that it has credits available for purchase, and the available credits consist of willow riparian habitat, which is appropriate mitigation for the project impacts. To account for the potential failure of newly created habitat, resource agencies often require that a project provide more mitigation, or pay for more off-site mitigation, than the amount of habitat being impacted. This additional mitigation is expressed as a ratio and is different depending on the relative success of habitat creation. The resource agencies have accepted, a 3:1 mitigation ratio for the 0.130-acre man-made pond and adjacent riparian habitat, and a 1:1 mitigation ratio for the 0.029 acre upstream and downstream swales. As described in Table 4-2 of the third and current IS/MND (page 54), the amount of mitigation is 0.419 acres of purchased off-site mitigation credit. The purchase of mitigation credits from the EMARCD will ensure that the habitat affected by the project will be replaced, resulting in an impact that is less than significant with mitigation incorporated.

1-4-12 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. As stated on pages 54 through 55 of this version of the IS/MND, mitigation measure BIO-4 requires the main drainage and associated wetland (Feature 1) identified in the preliminary jurisdictional delineation prepared for the proposed project (see IS/MND Appendix 4c) will be avoided, conserved, and enhanced by the proposed project and maintained by the HOA. Implementation of mitigation measure BIO-7 will require that the project applicant purchase off-site mitigation credits to offset the project's impacts to the man-made pond and associated swales (Feature 2). Implementation of mitigation measures BIO-4 and BIO-7 would reduce any potential impacts to potential waters of the State and of the United States by avoidance and purchase of off-site mitigation credits. Therefore, impacts are considered less than significant level with mitigation incorporated. As shown in the DBESP (IS/MND Appendix 4c) Feature 1 will be avoided by the proposed project, and as demonstrated in the preliminary jurisdictional delineation (IS/MND Appendix 4c) the characteristics of the man-made pond in Feature 2 are such that this

drainage feature is not subject to U.S. Army Corps of Engineers (USACE) jurisdiction. The Regional Water Quality Control Board (RWQCB) will make the determination of the extent of their jurisdiction. If a Clean Water Act (CWA) Section 404 permit were to be required from the USACE, a CWA Section 401 permit would be also required from the RWQCB. If it is determined by a qualified wetland biologist through consultation with the RWQCB that on-site jurisdictional features qualify as waters of the State and would be affected by the proposed project, the applicant would be required to obtain authorization from the RWQCB to fill/disturb these features prior to project implementation. Additionally, on-site jurisdictional features qualify as waters of the State, authorization from the California Department of Fish and Wildlife (CDFW) for impacts to these features would be required through the 1602 Streambed Alteration Agreement process. As stated on page 55 of the third and current version of the IS/MND, implementation of mitigation measures BIO-4 through BIO-7 would reduce impacts to waters of the State and waters of the United States to a less than significant level.

1-4-13 As stated on page 55 of the third and current IS/MND, the MSHCP is a habitat conservation plan and natural community conservation plan to which the City of Wildomar is a permittee (i.e., signatory). Although the project site is located within the MSHCP Plan Area, it is not located within a Criteria Cell (Exhibit 8, as cited in MBA 2014a). Since the site is not located within a Criteria Cell, there are no conservation requirements on the property. The proposed project is presently consistent with Section 6.3.2– Additional Survey Needs and Procedures, but further surveys as required in the MSHCP will be undertaken before ground disturbance may occur. As stated on page 56 of the third and current version of the IS/MND, the project is located in an Additional Survey Area for burrowing owl. A focused survey for burrowing owls was conducted by First Carbon Solutions during the 2013 nesting season (IS/MND Appendix 4b). No burrowing owls or their sign were documented during the focused survey; however, burrowing owls have the potential to become established in the future due to the presence of suitable habitat. As a result, implementation of the proposed project could result in impacts to this species. However, implementation of mitigation measures BIO-2 and BIO-3 would ensure through preconstruction survey and avoidance that impacts to burrowing owls will be mitigated to a less than significant level with mitigation incorporated. Relocation plans are prepared and reviewed by CDFW on a case-by-case basis, and are only required if owls are documented onsite. Due to a lack of evidence of occupancy by owls during the focused survey, preparation of a relocation plan is impractical and speculative at this time. However, if owls are documented during the preconstruction surveys required under BIO-2, then the applicant will be required to prepare a relocation plan for review and approval by CDFW at that time prior to initiation of ground disturbance activities, as required under BIO-3.

1-4-14 The project is consistent with MSHCP requirements. Please see Responses 1-4-13, 2-6-1, and 2-6-2,

1-4-15 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. As stated on pages 69 through 70 of this version of the IS/MND, the project is located within seismically active Southern California and is expected to experience occasional strong ground motions from earthquakes caused by both local and regional faults. The project site does not lie within a California Earthquake Fault Hazard Zone (formerly called an Alquist-Priolo Special Studies Zone) but does lie within the Riverside County Fault Zone. Geologic mapping indicates that a branch of the Elsinore Fault Zone (Glen Ivy Segment), which is also included in the Riverside County Fault Zone, may transect the project site, although it is not mapped by the State of California. The proposed project could expose

people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking. The project site is located in an area of high regional seismicity and may experience horizontal ground acceleration during an earthquake along the Wildomar fault of the Elsinore Fault Zone or other fault zones throughout the region. Implementation of mitigation measures GEO-1 and GEO-2 will minimize the potential for damage associated with strong seismic ground shaking and will reduce this impact to a less than significant level. Additionally, because the specific information regarding the type and location of building materials to be used for the proposed residences is unknown, mitigation measure GEO-4 requires that a qualified corrosive soils engineer evaluate the development plans and make a recommendation to the City on the best method of addressing the potential impact associated with the site's corrosive soils. Typical mitigation measures include installation of Sacrificial steel, An appropriate cementitious material cover (e.g., grout), Surface coatings (e.g., epoxy, zinc, etc.), Grout filled corrugated plastic sheath encapsulation, use of Stainless steel or a combination of these or similar factors. Mitigation measure GEO-4 will require that a qualified corrosive soils engineer further investigate the soils of the project site and that the same qualified corrosive soils engineer will make a recommendation to the City to be included in the development plans. This is a normal aspect of construction and following the implementation of mitigation measure GEO-4, the impact will be less than significant.

On-site soils are expected to be balanced on-site (see Attachment A, Cut and Fill Balance Calculations.

1-4-16 As stated on page 75 of the third and current IS/MND, City does not have its own significance threshold, and thus the City has chosen to use the South Coast Air Quality Management District's (SCAQMD's) proposed threshold. The proposed project would not surpass SCAQMD's recommended greenhouse gas (GHG) significance thresholds, which were prepared with the purpose of complying with the requirements of Assembly Bill 32, which aims to reduce the State's 2020 contribution of GHG emissions to 1990 levels. Therefore, the proposed project would not result in any potentially significant adverse greenhouse gas emissions impacts due to its consistency with AB 32.

1-4-17 The mapped risk site, Southern California Edison, 24487 Prielipp Road, located 0.23 mile northwest of the project site, is reported as a Resource Conservation and Recovery Act (RCRA) "Large Quantity Generator" (i.e., generates more than 1,000 kilograms per month of hazardous waste), with no reported releases or violations. Because the project site is located almost a quarter of a mile from this mapped risk site, and because project development will not impact this site, there would be no impact associated with the implementation of the proposed utilities and 24487 Prielipp Road.

As stated on page 78 of the third and current IS/MND, according to a Fire Behavior Report and Conceptual Fuel Modification Plan created for the proposed project (see IS/MND Appendix 8a), which used the BEHAVE model to measure the intensity of a fire moving toward the project site in order to design a protection system which will ensure that the project will be safe from wildland fires even without fire department suppression activities. This protection system includes mitigation measures HAZ-1, HAZ-2, and HAZ-3 (pages 78 – 79 of the IS/MND), which will reduce the flame lengths and fire intensity of a wildfire event. Mitigation measures HAZ-1, HAZ-2, and HAZ-3 will help to ensure that the exterior portions or attic spaces of the structures of the proposed project will not ignite from exterior fire exposure from a wildland vegetation fire. This is primarily because the greatest fire energy will be situated away from the structures due to the low plant densities within the defensible space zones and the construction feature requirements.

Parts of the project are adjacent to the protected Feature 1 and may not be able to conduct fuel modification in the protected area. Mitigation measure HAZ-3 allows for the construction of a block wall or block and tempered glass wall to serve as a fire break consistent with the recommendations in Appendix 8a of the third and current IS/MND. Following the implementation of mitigation measures HAZ-1, HAZ-2, and HAZ-3, any impacts would be less than significant.

1-4-18 As stated on pages 82 – 83 of the third and current IS/MND, the City of Wildomar is required to comply with a Municipal Separate Storm Sewer System (MS4) Permit from the San Diego Regional Water Quality Control Board. This MS4 permit places pollution prevention requirements on planned developments, construction sites, commercial and industrial businesses, municipal facilities and activities, and residential activities.

The Preliminary Water Quality Management Plan (WQMP) includes requirements that must be followed by the project to address the potential for contaminated storm drainage runoff. For example, the WQMP requires that all roof gutters drain into landscape areas rather than directly into the storm drainage system. This requirement ensures that contaminants, including debris, can be removed by the landscaping rather than being conveyed directly to the storm drainage system. The WQMP also requires that storm drainage drain to a central detention basin with a sand filter system. The proposed project is required to prepare a final WQMP as part of the improvement specifications for the subdivision. The final WQMP will be reviewed by the City for compliance with its MS4 permit. The preliminary WQMP is available in Appendix 9 of the third and current IS/MND.

1-4-19 As stated on page 91 – 92 of the third and current IS/MND, the City of Wildomar General Plan does not set standards for temporary noise impacts like construction. Chapter 9.48 of the Wildomar Municipal Code contains noise standards in addition to the standards contained in the General Plan, but Section 9.48.010 specifically states that the noise standards contained in that Chapter are not thresholds of significance for the purposes of CEQA review. In addition, Section 9.48.020(I) of the Wildomar Municipal Code states that sound emanating from private construction projects located within one-quarter of a mile from an inhabited dwelling is exempt from the noise ordinance, provided that:

1. Construction does not occur between the hours of 6:00 p.m. and 6:00 a.m. during the months of June through September, and

2. Construction does not occur between the hours of 6:00 p.m. and 7:00 a.m. during the months of October through May.

Nonetheless, mitigation measure NOS-1 is required to reduce construction-generated noise to insignificant levels. Mitigation measure NOS-1 requires that development on the project site implement several construction noise reducing measures such as the requirements to stage and store construction equipment as far from existing residential land uses as possible, to properly maintain all construction equipment and employ the use of operating mufflers and air intake silencers, and use temporary noise barriers along the project boundaries during all construction activities.

The commenter is referred to Tables 12-1 through 12-4 for noise levels likely to be experienced during project construction and operations. RK Engineering Group, Inc. completed a preliminary acoustical analysis for the project, which determined that with the implementation of mitigation (see pages 96 – 97 of the third and current IS/MND), the proposed project would meet the required exterior/interior noise standards as specified

by the relevant noise requirements. Potential noise impacts were determined to be less than significant.

1-4-20 As stated on pages 103 – 104 of the third and current IS/MND, the study area of the traffic impact analysis (TIA) performed for the proposed project and included as Appendix 16 was determined through a scoping agreement with the City Engineer. The scoping agreement required the TIA to include any intersection of a collector or higher designation street with another collector roadway or higher designation at which the proposed project would add 50 or more peak-hour trips, not exceeding a 5-mile radius from the project site.

The TIA that was prepared for the project included the following intersections based on the City of Wildomar's guidelines or requested by City Staff for analysis purposes. The guidelines indicate that intersections need to be analyzed where the project traffic contributes a minimum of 50 or more trips (to an intersection of a Collector roadway or higher with another Collector or higher roadway) during the peak hour. Based upon these guidelines, the TIA analyzed the following intersections:

1. Prielipp Road/N. Project Driveway (project does not contribute more than 50 trips during the peak hour)

2. Elizabeth Lane/E. Project Driveway (project does not contribute more than 50 trips during the peak hour)

3. Elizabeth Lane/Prielipp Road (project contributes more than 50 trips during the peak hour for severe storm conditions only)

4. Inland Valley Drive/Prielipp Road (project does not contribute more than 50 trips during the peak hour)

5. Inland Valley Drive/Clinton Keith Road (project does not contribute more than 50 trips during the peak hour)

6. Nutmeg Street/Jackson Ave. (project contributes more than 50 trips during the peak hour for severe storm conditions only)

Based on the 67 single family residential development, the project is expected to generate 641 trips per day with 51 trips during the AM peak hour and 68 trips during the PM peak hour. These estimates are based on the ITE Trip Generation Manual. According to Trames Solutions Inc., it is anticipated that 45 percent of the project traffic will head west on Clinton Keith Road, 20 percent will head east on Clinton Keith Road, and 30 percent will head south on Jackson Avenue. Since less than 50 peak hour trips would continue on Clinton Keith Road west of Inland Valley Drive, no additional intersections were analyzed – per the City's guidelines. (See Attachment B)

If 45 percent of the project traffic were routed further to the west on Clinton Keith Road, it is estimated that 10 percent of the project traffic would continue west on Clinton Keith Road past the interchange, 20 percent would head north on I-15, and 15 percent would head south on I-15. This results in the following project trip allocations to the turning movements at the two interchange intersections during the AM and PM peak hours:

I-15 SB Ramps (AM Peak Hour)

- SB Lefts – 3
- EB Thru – 1
- WB Lefts – 6
- WB Thru – 4
- **Total = 14**

I-15 SB Ramps (PM Peak Hour)

- SB Lefts – 9
- EB Thru – 4
- WB Lefts – 4
- WB Thru – 3
- **Total = 20**

I-15 NB Ramps (AM Peak Hour)

- NB Right – 2
- EB Thru – 4
- WB Thru – 10
- WB Rights – 8
- **Total = 24**

I-15 NB Ramps (PM Peak Hour)

- NB Right – 6
- EB Thru – 13
- WB Thru – 6
- WB Rights – 6
- **Total = 31**

The evaluation indicates that less than 49 trips would be assigned to either the northbound or southbound I-15 freeway ramps during the peak hours. It is important to note that the interchange has been recently improved and is operating at an acceptable level of service. Therefore, pursuant to the Caltrans Guide for the Preparation of Traffic Impact Studies, a traffic analysis is not required at the interchange intersections since the:

a) Affected State highway facilities (interchange intersections) are not experiencing a significant delay, unstable, or forced traffic flow conditions (LOS "E" or "F").

   Trames Solutions, Inc. is currently working on a traffic study for another development in the City of Wildomar, and has evaluated the operations at the I-15/Clinton Keith interchange with the current improved geometry. Based on this analysis, the northbound and southbound freeway ramp intersections are operating at an acceptable level of service (LOS "D" or better) during both the AM and PM peak hours (see Attachment B).

b) The potential risk for a traffic incident is not significantly increased.

The recent freeway interchange improvements provide for appropriate sight distance to allow motorists to view oncoming vehicles while performing turning movements. The additional traffic added to the interchange intersections will not cause forced flow conditions that would increase the potential for unsafe maneuvers.

c) There is no change in local circulation networks that impact a State highway facility.

The proposed project does not require a change to the local circulation network that would impact a State highway facility.

In terms of potential traffic impacts during construction, pages 104 – 105 of the third and current IS/MND estimates that there will be fewer than 30 construction and worker vehicles traveling to the site at any time resulting in approximately 120 trips per day (estimated four trips per vehicle per day) involved in the construction on the property. As this number of trips is fewer than the estimated trips generated by the proposed project, and the area roadways and intersections function acceptably with buildout of the project, this impact is considered less than significant. The construction traffic will diminish until ending entirely once the project is finished.

Cumulative traffic impacts are discussed on page 115 of the third and current IS/MND. As stated on this page, cumulative impacts to traffic within the region are anticipated by considering current approved land use designations. Specific ranges of the daily trips are assigned to particular land use types. Since the proposed project will not include a change in the land use designation of the project site the proposed project's contribution to cumulative traffic impacts will be less than significant. In addition, as a standard condition, the project applicant will be responsible to implement and pay its fair-share contribution toward necessary improvements through payment of the Transportation Uniform Mitigation Fee. The project's impacts to cumulative traffic conditions would be less than cumulatively considerable.

1-4-21 As stated on page 109 of the third and current IS/MND, the Elsinore Valley Municipal Water District (EVMWD) Urban Water Management Plan (UWMP) established a baseline per capita water demand for residents within its service area by compiling overall water demands for a ten-year period from 1999 to 2008. This per capita demand rate is measured in gallons per capita per day (gpcd). The 2010 baseline water demand baseline is 248 gpcd. Based on this estimate, the proposed project would result in an increased water demand of 54,064 gpd (60.56 acre-feet per year). The UWMP states that the current average daily production of potable water is 43,800 acre-feet per year and that the EVMWD has the capacity to produce 66,500 acre-feet per year of potable water. Considering the incremental increase in potable water production required by the proposed project and the remaining production capacity of the EVMWD, the proposed project will have a less than significant impact on water supply.

1-4-22 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. This version of the IS/MND contains an expanded discussion of cumulative impacts on pages 112 – 116. CEQA Section 15130 (a)(3) states that an EIR may determine that a project's contribution to a significant cumulative impact will be rendered less than cumulatively considerable and thus is not significant if the project is required to implement or fund its fair share of a mitigation measure or measures designed to alleviate the cumulative impact. In this discussion, the project's potential contributions to

cumulative impacts were analyzed by comparing the proposed project to the identified impacts associated with buildout of the City General Plan for each of the environmental issue area(s). The City's General Plan establishes a framework for growth within the City that is evaluated in the General Plan EIR. The information in the General Plan is used in regional planning efforts such as the Regional Transportation Plan and the Sustainable Communities Strategy. The policies included in these regional plans, and reflected in the General Plan and development conditions of the City (e.g. Payment of TUMF), are designed to address cumulative impacts. Projects that are consistent with the General Plan are also consistent with these regional planning efforts. For this project the third and current IS/MND evaluated the impacts against the current population and conditions of the City and found that the impacts are less than significant. The cumulative traffic analysis included two adjacent approved but as-yet unconstructed projects as well as an estimated annual growth rate. (See Table 4-4 of Appendix 16) The estimated annual growth rate increases background growth for the entire study area to reflect other projects that may be approved and constructed during the study period. As noted in the TIA and in the third and current IS/MND, the proposed project's transportation impacts are less than significant.

Additionally, the commenter asks why we did not consider the 270-unit Oak Creek Canyon project in the cumulative analysis. CEQA Section 15130 (b)(3) allows lead agencies to establish a geographic scope when analyzing cumulative impacts. The City established a geographic scope consistent with the anticipated traffic. The Oak Creek Canyon project did not fall within the geographic scope of the area affected and analyzed by and for cumulative impacts.

Further, since the proposed project does not include a change in the land use designation the contribution to cumulative impacts will be no greater than those already identified in the General Plan EIR.

Letter 2-1

From: Adelson, Mark@Waterboards
To: Matthew Bassi
Cc: Robertson, Glenn@Waterboards
Subject: Lennar Homes TTM 36497 and Plot Plan 12-0364
Date: Tuesday, December 03, 2013 3:29:49 PM

Matt-
Board staff received your November 25, 2013, revised notice of intent to adopt a MND for the subject project.

Review of 2013 overhead imagery, USGS quad map and MND exhibits of the site vicinity – southwest corner of Prielipp Road and Elizabeth Lane - shows a well-defined, vegetated water course crossing the area south (and north) of Priellip Road and between Elizabeth Lane and Estes Park Court. This water course appears to cross the site of the subject project. The character of this watercourse strongly suggest that it is a water of the state, subject to the jurisdiction of the RWQCB and a water of the U.S. subject to the jurisdiction of the U.S. Army Corps of Engineers. Wildlife resource management agencies are also likely to have a jurisdictional interest in the project. Construction and post-construction impacts to this water course are of concern to the Regional Board.

The project MND online at the City's website, at page 73, indicates that the project site drains to the Santa Margarita watershed and is within the jurisdiction of the San Diego RQWCB. Therefore, the Santa Ana RWQCB staff has no comments on the project. However, to reduce possible delays, the City should consider drirecting the applicant to confer with San Diego RQWCB staff as soon as possible, to determine what water quality permitting, if any, will be necessary to implement the proposed project, and the nature of any permit requirements or conditions that may be imposed by the Board.

Regards,

Mark G. Adelson
Senior Environmental Scientist
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Second Distribution
Response to Comment Letter 2-1
Santa Ana Regional Water Quality Control Board
December 3, 2013

The comment letter does not make any substantive comments of the adequacy of the MND. Also, all potentially significant adverse impacts will be reduced to levels of insignificance through the mitigation measures identified and to be required as conditions of approval by the City. The commenter states that Drainage Feature 1 appears to qualify as a water of the state subject to RWQCB and USACE jurisdiction. The third and current version of the IS/MND, similarly acknowledges that the Drainage Feature 1 would be subject to the jurisdiction of USACE, CDFW, and the RWQCB, but because this area will not be disturbed in connection with the development of the project, there will be no need to apply for permits from these agencies for Feature 1. Page 54 of the third and current IS/MND identifies Drainage Feature 1 and establishes Mitigation measure BIO-4 that requires the preservation of the 1.88 acres of southern cottonwood-willow riparian forest (Feature 1) and adjacent 3.69 acres of upland habitat on site.

It is acknowledged that the project site drains into a watershed that is under the jurisdiction of the San Diego RWQCB. The City sent the third and current IS/MND to the San Diego RWQCB and did not receive any comments.

Letter 2-2

STATE OF CALIFORNIA Edmund G. Brown, Jr.Governor

NATIVE AMERICAN HERITAGE COMMISSION
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December 3, 2013

Mr. Matthew C. Bassi, Planning Director
CITY OF WILDOMAR
23873 Clinton Keith Road
Wildomar, CA 92595

RE: SCH#2013111061 CEQA Notice of Completion;; proposed Mitigated Negative Declaration for the **"Lennar Residential Development (67 Single Family Units);"** located in the City of Wildomar; Riverside County, California

Dear Mr. Bassi:

The Native American Heritage Commission (NAHC) has reviewed the above-referenced environmental document.

The California Environmental Quality Act (CEQA) states that any project which includes archeological resources, is a significant effect requiring the preparation of an EIR (CEQA guidelines 15064.5(b). To adequately comply with this provision and mitigate project-related impacts on archaeological resources, the Commission recommends the following actions be required:

Contact the appropriate Information Center for a record search to determine :If a part or all of the area of project effect (APE) has been previously surveyed for cultural places(s), The NAHC recommends that known traditional cultural resources recorded on or adjacent to the APE be listed in the draft Environmental Impact Report (DEIR).

If an additional archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey. We suggest that this be coordinated with the NAHC, if possible. The final report containing site forms, site significance, and mitigation measurers should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for pubic disclosure pursuant to California Government Code Section 6254.10.

Letter 2-2 Continued

A list of appropriate Native American Contacts for consultation concerning the project site has been provided and is attached to this letter to determine if the proposed active might impinge on any cultural resources. Lack of surface evidence of archeological resources does not preclude their subsurface existence.

California Government Code Section 65040.12(e) defines "environmental justice" to provide "fair treatment of People…with respect to the development, adoption, implementation, and enforcement of environmental laws, regulations and policies" and Executive Order B-10-11 requires consultation with Native American tribes their elected officials and other representatives of tribal governments to provide meaningful input into the development of legislation, regulations, rules, and policies on matters that may affect tribal communities.

Lead agencies should include in their mitigation plan provisions for the identification and evaluation of accidentally discovered archeological resources, pursuant to California Health & Safety Code Section 7050.5 and California Environmental Quality Act (CEQA) §15064.5(f). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American, with knowledge in cultural resources, should monitor all ground-disturbing activities. Also, California Public Resources Code Section 21083.2 require documentation and analysis of archaeological items that meet the standard in Section 15064.5 (a)(b)(f).

Lead agencies should consider first, avoidance for sacred and/or historical sites, pursuant to CEQA Guidelines 15370(a). Then if the project goes ahead then, lead agencies include in their mitigation plan provisions for the analysis and disposition of recovered artifacts, pursuant to California Public Resources Code Section 21083.2 in consultation with culturally affiliated Native Americans.

Lead agencies should include provisions for discovery of Native American human remains in their mitigation plan. Health and Safety Code §7050.5, CEQA §15064.5(e), and Public Resources Code §5097.98 mandates the process to be followed in the event of an accidental discovery of any human remains in a location other than a dedicated cemetery.

Sincerely,

Dave Singleton
Program Analyst

CC: State Clearinghouse

Attachment: Native American Contacts list

Letter 2-2 Continued

Native American Contacts
Riverside County California
December 3, 2013

Pala Band of Mission Indians
Historic Preservation Office/Shasta Gaughen
35008 Pala Temecula Road, PMB Luiseno
Pala , CA 92059 Cupeno
PMB 50
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sgaughen@palatribe.com
(760) 742-3189 Fax

Rincon Band of Mission Indians
Vincent Whipple, Tribal Historic Preationv. Officer
1 West Tribal Road Luiseno
Valley Center, CA 92082
jmurphy@rincontribe.org
(760) 297-2635
(760) 297-2639 Fax

Pauma & Yuima Reservation
Randall Majel, Chairperson
P.O. Box 369 Luiseno
Pauma Valley, CA 92061
paumareservation@aol.com
(760) 742-1289
(760) 742-3422 Fax

Santa Rosa Band of Mission Indians
John Marcus, Chairman
P.O. Box 391820 Cahuilla
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(951) 659-2228 Fax

Pechanga Band of Mission Indians
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Temecula , CA 92593
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pmacarro@pechanga-nsn.
gov
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Morongo Band of Mission Indians
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12700 Pumarra Road Cahuilla
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wmadrigal@morongo-nsn.
gov
(951) 572-6004 Fax

Ramona Band of Cahuilla Mission Indians
Joseph Hamilton, Chairman
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(760) 749-8901 Fax

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

his list s only applicable for contacting local Native Americans with regard to cultural resources for the proposed SCH#2013111061 CEQA Notice of Completion; proposed Mitigated Negative Declaration for the Lennar Residential Development Project; located in the City of Wildomar; Riverside County, California.

Letter 2-2 Continued

Native American Contacts
Riverside County California
December 3, 2013

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This list is current only as of the date of this document.

Distribution of this list does not relieve any person of the statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

his list s only applicable for contacting local Native Americans with regard to cultural resources for the proposed SCH#2013111061 CEQA Notice of Completion; proposed Mitigated Negative Declaration for the Lennar Residential Development Project; located in the City of Wildomar; Riverside County, California.

Second Distribution
Response to Comment Letter 2-2
California Native American Heritage Commission
December 3, 2013

The cultural resources survey completed for the proposed project that is attached to the third and current version of the IS/MND as Appendix 5 included a notification to the Native American Heritage Commission and a listing of the known traditional cultural resources that have been recorded at the project site. The commenter did not provide any comments on the adequacy of the IS/MND, which demonstrates that through compliance with Mitigation measure CUL-1 through CUL-12, all potentially significant adverse impacts to cultural resources will be reduced to levels of insignificance.

Letter 2-3

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY EDMUND G. BROWN Jr, Governor

DEPARTMENT OF TRANSPORTATION
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PLANNING (MS 1221)
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December 10, 2013

Matthew C. Bassi
Planning Director
City of Wildomar
23837 Clinton Keith Road, Suite 201
Wildomar, CA 92595

Mr. Bassi,

Lennar Homes – Tentative Tract Map No.36497 & Plot Plan No.12-0364 Planning Application No.12-0364 (Riv 15 PM 12.59)

We have received and reviewed the Intent to Adopt a Mitigated Negative Declaration document for the above referenced project, located in the City of Wildomar. This project includes a request to subdivide 23.2 acres into 67 single-family residential dwelling units.

As the owner and operator of the State Highway System (SHS), it is our responsibility to coordinate and consult with local jurisdictions when proposed development may impact our facilities. As the responsible agency under the California Environmental Quality Act (CEQA), it is also our responsibility to make recommendations to offset associated impacts with the proposed project. Although the project is under the jurisdiction of the City of Wildomar to the Project's potential impact to State facilities it is also subject to the policies and regulations that govern the SHS.

If this development proposal is later modified in any way, please forward copies of revised plans as necessary so that we may reevaluate all proposed changes for potential impacts to the SHS.

If you have any questions regarding this letter, please contact Talvin Dennis at (909) 383-6908 or myself at (909) 383-4557 for assistance.

Sincerely,

DANIEL KOPULSKY
Office Chief
Community and Regional Planning

"Caltrans improves mobility across California"

Second Distribution
Response to Comment Letter 2-3
California Department of Transportation
December 11, 2013

The comment letter does not make any substantive comments on the adequacy of the MND. Furthermore, the IS/MND demonstrates that all potentially significant adverse impacts will be reduced to levels of insignificance through the mitigation measures identified and to be required as conditions of approval by the City.

Letter 2-4

Johnson & Sedlack
ATTORNEYS at LAW

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December 16, 2013

City of Wildomar
23873 Clinton Keith Road, Suite 201
Wildomar, CA 92595

VIA US MAIL AND EMAIL

RE: Lennar Residential Project, Tentative Tract Map 36497 (PA 12-0364), Initial Study/ Mitigated Negative Declaration.

Greetings:

On behalf of Alliance for Intelligent Planning, I hereby submit these comments on, and in opposition to, the recirculated Initial Study/ Mitigated Negative Declaration for the Lennar Residential Project, TTM 36497 ("Project").

The Project foresees the development of TTM 36497 subdividing 5 parcels, totaling 23.2 acres, into 67 single family lots; 5.6 acres of open space; and a detention/water quality basin. The Project would rezone from Rural Residential to Planned Residential R-4.

The California Environmental Quality Act ("CEQA") was adopted as a disclosure and transparency document. The theory is that by providing a document that adequately describes the environmental consequences of a project to decision makers and the public, the decision makers will make a rational decision based upon the true environmental consequences of the project and if they do not, the electorate can hold them accountable for their decisions. The core of this statutory structure is the adequacy of the document as an informational document.

The EIR requirement is the "heart of CEQA." (State CEQA Guidelines § 15003(a). An EIR is required for any proposed project that may have a significant effect on the environment. (Public Resources Code § 21100 (a)) A lead agency may prepare a mitigated negative declaration for a proposed project only when: (1) revisions in the project would avoid or mitigate the potentially significant project effects to a point where *clearly* no significant effects would occur; and (2) there is no substantial evidence in light of the whole record that the project as revised *may* have a significant effect on the environment. (State CEQA Guidelines § 15070 (b))

CEQA also mandates that mitigation measures be certain, enforceable, and not deferred. (Guidelines § 15126.4) "Formulation of mitigation measures should not be deferred until some future time. (Guidelines § 15126.4(a)(1)(B).) Deferral can be found improper if unnecessary and no reason is given for such deferral. (*Sacramento Old City Assn. v. City Council* (1991) 229 Cal.App.3d 1011, 1028-9; 1 Kostka & Zischke Mitigation Measures § 14.12, p. 699.) The

Letter 2-4 Continued

December 16, 2013
Page 2

recirculated MND still relies on vague, unenforceable, and deferred mitigation measures not permitted by law. Moreover, all feasible mitigation has not been adopted for this Project.

The adoption of the recirculated Mitigated Negative Declaration ("MND") for the Lennar Residential Project, TTM 36497 (PA 12-0364) (the "Project"), is improper where, as here, there is substantial evidence in the record of a fair argument of significant environmental impacts as a result of the project. Significant impacts are not shown to be mitigated below a level of significance. For the reasons detailed below, and detailed in the comment letter previously submitted on the MND for this Project and incorporated herein by reference, an EIR must be prepared for this Project.

Aesthetics
As previously noted, the site is currently undeveloped and existing land uses include rural residential and vacant lands to the west, north, and south. Despite these existing rural or vacant uses, the MND finds a less than significant impact to views or the scenic/ visual quality of the site from rezoning the site from Rural-Residential to Planned Residential R-4 and developing Medium High Density Residential. This finding is unsupported by the zone change and existing surrounding land uses and rural visual character on-site. **2-4-1**

Soils Work: Air Quality, Traffic, Noise, etc.
Over-excavation of the Project site to a depth of 2-4 feet, up to 8 feet and deeper, is anticipated across the Project site. The recirculated MND states grading will move approximately 130,800 cubic yards of soil. The MND, however, provides no discussion of the potential amount of soils to be imported/exported and fails to evaluate potential construction air quality and traffic impacts from this soils work.

One haul truck load moves usually around 11- 22 cubic yards of soil, and one cubic yard of soil weighs approximately 1- 1.35 tons. (e.g. <http://www.cpuc.ca.gov/Environment/info/aspen/santafe/SFPP-EIR/initial/8-4.htm> [assuming 12 cy truck]; <http://www.calrecycle.ca.gov/swfacilities/cdi/Tools/Calculations.htm>, <http://www.cmsgsand.com/conversion.html>.) Even very liberal estimates for soils/truck load limits capacity at 30 cubic yards. (*See, e.g.* First Inland Logistics Center Final EIR, prepared by City of Moreno Valley (November 2013) Response to Comments < http://www.moval.org/misc/filc-ii-feir.shtml>) **2-4-2**

The number of truck trips to move 130,800 cubic yards of soil amounts to between approximately 23,782 truck trips (construction (11,891 loads x 2 trips [one full truck in/ one empty truck out]) and 8,720 truck trips during construction (4,360 loads x 2 trips). Over the 20 days of grading assumed in the MND, this amounts to between approximately 1,189 and 436 truck trips per day in this rural residential area. An EIR must be prepared to evaluate this potentially significant effect to at least air quality, transportation and noise.

The MND also fails to disclose the origin of soil imports or exports, or vehicle miles expected to be travelled for such purposes. There is likewise no mitigation measure adopted to reduce these air quality, traffic, or noise impacts below significance. **2-4-3**

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Letter 2-4 Continued

December 16, 2013
Page 3

Biological Impacts
Mitigation for nesting birds and burrowing owls is impermissibly vague. There is also no justification for deferral of preparation of a relocation plan for burrowing owls discovered onsite. 2-4-4
Bio-4 is likewise impermissibly vague as it fails to place any limits on the person/organization responsible for maintaining riparian habitat, and fails to set out the manner in which the habitat shall be maintained in accordance with requirements of the MSCHP, CDFW, USACE, etc. These mitigation measures must be amended to provide specificity and ensure that such measures are enforceable. 2-4-5

Cultural/ Paleontological Impacts
Mitigation for paleontological impacts is also too vague and uncertain to occur where paleontological repositories have not been identified. The MND should identify repositories willing to take on recovered paleontological resources. 2-4-6

Geology/Soil Impacts
As previously noted, the Geotechnical Report finds that the soils are corrosive to moderately corrosive and that consultation with a corrosion engineer may be needed. Evaluation and determination by a corrosion engineer must be undertaken prior to Project consideration by decision-makers to determine whether significant impacts from corrosion may, in fact, occur. The recirculated MND makes no mention of this potential instability. 2-4-7

Noise Impacts
Contrary to the MND's contention, the noise standards of the General Plan *are* applicable to the Project pursuant to the City's adopted threshold question. Hence, despite being exempt from municipal code standards for construction, construction of the Project is still anticipated to exceed the noise standards outlined in the General Plan. Construction noise impacts should be deemed significant. An EIR must be prepared to evaluate this effect absent the adoption of mitigation needed to render the impact less than significant. 2-4-8 2-4-9

Mitigation adopted for construction noise impacts will not demonstrably reduce such impacts below a level of significance. Limiting the hours of construction does nothing to reduce the noise levels experienced when construction is ongoing. NOI-1 is also vague and unenforceable, requiring for instance that staging areas be located "as far as possible" from residential land uses. Some numerical limit (e.g. at least 100 ft.) should be adopted to render this mitigation measure enforceable. Additionally, notification and the ability to complain also fails to actually mitigate for noise impacts absent a requirement that action be taken to remedy any noise issues within 24 hours. 2-4-10

As with the prior evaluation, the recirculated MND omits consideration of increases in either construction noise or operational noise to ambient noise levels. The MND states that noise increases would be similar to those experienced elsewhere in the City but fails to quantify those increases. Noise increases may be particularly significant on this presently undeveloped site and in an area with rural residences, as the existing noise levels are relatively low so that increases may be more markedly perceived. 2-4-11

Under CEQA, consideration must be given to the magnitude of any noise increase, the existing

Letter 2-4 Continued

December 16, 2013
Page 4

ambient noise levels, and the location of noise-sensitive receptors in order to determine if a noise increase represents a significant adverse environmental effect. This is because noise impacts may be greater if substantial increases occur in a relatively quiet area, or if noise is added to an existing high noise level in a manner that increases noise to a problem/tipping point level. (*See, e.g., Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1122-23.) Attachments to our prior letter, incorporated herein by reference, detail the properties of noise and its potential effects on people, including where noise increases occur in a relatively quiet area. Preparation of an EIR is needed to quantify, disclose, and mitigate the noise impacts of this Project to the extent feasible. **2-4-11 cont.**

Traffic
As discussed previously the MND omits consideration of impacts along at Clinton Keith Rd. and I-15 on-/off-ramps and along I-15 despite the fact that most Project trips will use Clinton Keith to access I-15. The Caltrans Guidelines (http://www.dot.ca.gov/hq/tpp/offices/ocp/igr_ceqa_files/tisguide.pdf) provides that a traffic impact study evaluating traffic mainlines should be prepared where a project:

1. Generates over 100 peak hour trips assigned to a State highway facility
2. Generates 50 to 100 peak hour trips assigned to a state highway facility- and affected state highway facilities are experiencing noticeable delay; approaching unstable traffic flow conditions (LOS "C" or "D").
3. Generates 1 to 49 peak hour trips assigned to a State highway facility- the following are examples that may require a full TIS or some lesser degree of analysis:
    a. Affected State highway facilities experiencing significant delay; unstable or forced traffic flow conditions (LOS "E" or "F").
    b. The potential risk for a traffic incident is significantly increased (i.e., congestion related collisions, non-standard sight distance considerations, increase in traffic conflict points, etc.).
    c. Change in local circulation networks that impact a State highway facility.

2-4-12

The MND's claim that impacts will be less than significant as they would only increase vehicle counts by 0.24 percent fails to evaluate Project impacts pursuant to these Caltrans Guidelines.

The omission of evaluation of highway and ramp impacts pursuant to Caltrans methodology renders the MND and its determination that the Project will have a less than significant impact inadequate and unsupported. **2-4-13**

Moreover, as discussed above, the MND omits consideration of construction traffic impacts where the Project may add huge numbers of haul trucks to roadways during construction. Impacts to traffic during construction may be substantial and were not considered in the EIR. **2-4-14**

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Letter 2-4 Continued

December 16, 2013
Page 5

Conclusion
For each of these reasons, an EIR must be prepared for the Lennar Residential Project.

Sincerely,

Raymond W. Johnson
JOHNSON & SEDLACK

Attachments: (1) Johnson & Sedlack Comment letter dated June 21, 2013.

Second Distribution
Response to Comment Letter 2-4
Johnson and Sedlack
December 16, 2013

2-4-1 The proposed project will not represent an impact to any recognized scenic vista or resource, and the construction of housing would not lead to a substantial degradation of the existing visual character or the site or surroundings. Contrary to the commenter's suggestion, the project site is not surrounded by undeveloped vacant land and/or rural land. As shown in Figure 2 and as discussed on pages 29 - 30 of the third and current IS/MND, the project site and its surroundings are currently zoned, developed with and/or used by a mix of light industrial, business park, and residential land uses.

2-4-2 As stated on page 2 of the draft MND, the proposed project will not include the export or import of soils. In addition, page 1 of the Tentative Tract Map (attached as Appendix 1b to the IS/MND) identifies the site as a balanced site requiring no import or export of soils to the project site and the project's civil engineer, Daniel J. O'Rourke, PE concludes in Attachment A that the project's grading will balance, thereby eliminating the need for any export or import of dirt.

2-4-3 Please see Response 2-4-2.

2-4-4 Please see Responses 1-4-10 and 1-4-13. Mitigation required of the proposed project are clear and contain adequate performance standards that ensure impacts are mitigated to a less than significant level. For instance, mitigation measure BIO-3 on pages 58 – 59 of the third and current IS/MND, which requires that if burrowing owls are identified during the survey period, the City shall require the project applicant to take a series of actions to offset impacts prior to ground disturbance as well as the requirement that no occupied burrows shall be disturbed during the nesting season unless a qualified biologist verifies through noninvasive methods that the burrow is no longer occupied. If relocation of the owls is approved for the site by the CDFW, the City shall require the developer to hire a qualified biologist to prepare a plan for relocating the owls to a suitable site. The relocation plan must include all of the location of the nest and owls proposed for relocation, the location of the proposed relocation site, the number of owls involved and the time of year when the relocation is proposed to take place, the name and credentials of the biologist who will be retained to supervise the relocation, the proposed method of capture and transport for the owls to the new site, a description of site preparation at the relocation site (e.g., enhancement of existing burrows, creation of artificial burrows, one□time or long□term vegetation control), a description of efforts and funding support proposed to monitor the relocation. Mitigation measure BIO-3 contains adequate performance standards to ensure potential impacts are mitigated to a less than significant level. The preparation of a detailed owl relocation place at this time would be impractical and it is the protocol of the CDFW to instigate plans to relocate owls only in the case that they are actually discovered.

2-4-5 Please refer to mitigation measure BIO-5 on pages 59 – 61 of the third and current IS/MND. Mitigation measure BIO-5 states that a homeowners association of the project, or another entity designated by the project applicant and approved by the City, shall preserve and manage the conservation area required by BIO-4 in accordance with MSHCP requirements, as well as the applicable regulatory requirements of the CDFW, the USACE, and/or the State Water Resources Control Board. The preservation and management of the conservation area shall be subject to a Habitat Management Plan

(HMP) prepared by a qualified biologist. In addition, the Habitat Management Plan shall be funded, developed and implemented by the applicant and/or the Home Owners Association ("HOA") of the completed project, and that Plan shall be submitted to the City for review and approval prior to any clearing and/or construction activity. Mitigation measure BIO-5 highlights the required provisions that are required to be contained in the HMP as well as other performance standards requirements regarding specific management of conservation methods to be applied to the wetland features on the project site.

2-4-6 A written agreement is impractical now because the nature and extent of any accidentally uncovered paleontological resources is unknown, and therefore so is the appropriate destination. Mitigation to protect paleontological resources is clear and adequate and are contained in four distinct and encompassing measures. For example, as described on page 67 of the third and current IS/MND, Mitigation measure CUL-9 will effectively reduce impacts to levels of insignificance because they will collect, catalogue and preserve any/all paleontological specimens found on the project site. Mitigation measure CUL-10 requires that any recovered paleontological specimens shall be identified to the lowest taxonomic level possible and prepared for permanent preservation, including screen-washing of sediments to recover small invertebrates and vertebrates shall occur if necessary. Mitigation measure CUL-11 mandates the identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage must occur at an institutional repository approved by the City of Wildomar. Mitigation measure CUL-12 requires that a final monitoring and mitigation report of findings and significance be prepared, including lists of all fossils recovered and necessary maps and graphics to accurately record their original location. The report, when submitted to and accepted by the City of Wildomar, will signify satisfactory completion of the project program to mitigate impacts to any potential nonrenewable paleontological resources (i.e., fossils) that might have been lost or otherwise adversely affected without such a program in place.

For clarification purposes, mitigation measure CULT-11 on page 67 of the IS/MND is amended as follows:

CULT-11 Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage shall occur at an institutional repository approved by the City of Wildomar. The paleontological program shall include a written repository agreement prior to the ~~initiation of mitigation activities~~ retrieval of any discovered paleontological resources.

This proposed change does not instigate recirculation of the IS/MND because it does not make any substantial revisions per CEQA Guidelines Section 15073.5, which state that a lead agency (the City) is required to recirculate a negative declaration in the case that the document must be substantially revised after public notice of its availability has previously been given. A "substantial revision" is defined as a new, avoidable significant effect which requires the addition of mitigation measures or project revisions in order to reduce the effect to insignificance, or a new, significant effect which cannot be mitigated to a less than significant level.

2-4-7 Please refer to Response 1-4-15. Also, please note that as described in the IS/MND at page 72, mitigation measure GEO-4 requires an investigation of the project site for corrosive soils as well as includes performance standards to adequately guide mitigation of potential impacts in the case that corrosive soils are discovered.

2-4-8. Please refer to Response 1-4-19. The City General Plan does not set numeric standards for temporary noise impacts. Noise Policy 12-1 of the General Plan states that noise impacts from construction shall be minimized with acceptable practices and Policy 12-2 requires that construction activities are regulated to established hours of operation. Noise Policy 12.4 requires that all construction equipment use noise reduction features. A review of Response 1-4-19 as well as mitigation measure NOI-1 on page 96 of the third and current IS/MND shows adherence to these General Plan policies.

2-4-9. Please refer to Response 1-4-19.

2-4-10. As stated in Response 2-4-8, the City General Plan does not set numeric standards for temporary noise impacts. Noise Policy 12-1 of the General Plan states that noise impacts from construction shall be minimized with acceptable practices and Policy 12-2 requires that construction activities are regulated to established hours of operation. Noise Policy 12.4 requires that all construction equipment use noise reduction features. Accordingly, mitigation measure NOI-1 requires that development on the project site implement various construction noise reducing measures such as the requirements to stage and store construction equipment as far from existing residential land uses as possible, to properly maintain all construction equipment and employ the use of operating mufflers and air intake silencers, and use temporary noise barriers along the project boundaries during all construction activities.

Additionally, implementation of City of Wildomar Municipal Code Section 9.48.020 will require that for private construction projects located within a quarter-mile of an occupied residence, construction does not occur between the hours of 6:00pm to 6:00am (June through September) and between the hours of 6:00pm and 7:00am (October through May). However, this restriction is a City policy and is already included as a standard condition and requirement on page 96 of the third and most current version of the IS/MND.

The commenter notes that MM NOI-1 does not specify the noise attenuation measurement for the temporary noise barrier. NOI-1 is amended to include a requirement of a minimum sound transmission classification (STC) of 20. The commenter also states that the requirement to stage equipment and storage as far from residential land uses as possible is vague and unenforceable. Because construction will be throughout the property at different times it is reasonable to assume that the staging area(s) for equipment and raw materials will need to move. The intent of the requirement is to ensure that as these areas move, the remain as far as possible from homes.

Because there are no applicable numeric thresholds for construction noise and because the mitigation measure NOI-1 ensures compliance with General Plan construction noise policies, the IS/MND adequately analyzes and mitigates potential construction noise impacts.

2-4-11. As stated on pages 94 - 95 of the third and current IS/MND, development of the project site may result in increases in ambient noise levels above existing levels without the project resulting from personal automobiles, lawn mowers, radios, televisions, and

children playing outside. Other increases in noise would occur as the site is graded and as the homes and other site improvements are constructed. However, the noise level will still be considered less than significant because any potential increases in ambient noise would not approach the significance threshold, as determined by the preliminary acoustical analysis prepared for the project. The increase in the current noise levels on the vacant site is also similar to other residential noises in the city, thus not considered significant.

2-4-12. Please refer to Response 1-4-20 and Trames Traffic Memorandum in Attachment B

2-4-13. Please refer to Response 1-4-20 and Trames Traffic Memorandum in Attachment B. The proposed project will not exceed the trip generation thresholds of the 2002 Caltrans Guide for the Preparation of Traffic Impact Studies. Furthermore, the draft MND was provided to Caltrans for comment. The Caltrans comment letter received on December 11, 2013, did not require that the project analyze potential impacts to the I-15/Clinton Keith interchange.

2-4-14. Please refer to Response 1-4-20.

Letter 2-5

PECHANGA CULTURAL RESOURCES
Temecula Band of Luiseño Mission Indians

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Telephone (951) 308-9295 • Fax (951) 506-9491

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Darlene Miranda

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Gary DuBois

Coordinator:
Paul Macarro

Cultural Analyst:
Anna Hoover

December 20, 2013

VIA E-MAIL and USPS

Mr. Matthew Bassi
Planning Director
City of Wildomar, Planning Dept
23873 Clinton Keith Road, Ste 201
Wildomar, CA 92595

Re: Pechanga Tribe Comments on the Notice for Public Hearing and Initial Study/Mitigated Negative Declaration for Tentative Tract Map 36497, Change of Zone/Plot Plan No. 12-0364, Lennar Residential Project

Dear Mr. Bassi:

This comment letter is written on behalf of the Pechanga Band of Luiseño Indians (hereinafter, "the Tribe"), a federally recognized Indian tribe and sovereign government. The Tribe formally requests, pursuant to Public Resources Code §21092.2, to be notified and involved in the entire CEQA environmental review process for the duration of the above referenced project (the "Project").

If you have not done so already, please add the Tribe to your distribution list(s) for public notices and circulation of all documents, including environmental review documents, archaeological reports, and all documents pertaining to this Project. The Tribe further requests to be directly notified of all public hearings and scheduled approvals concerning this Project. Please also incorporate these comments into the record of approval for this Project.

The Tribe understands that this Initial Study/Mitigated Negative Declaration (IS/MND) is a recirculated document due to changes within the northern portion of the property. We previously submitted comments on the original May 2013 document (included for your reference) and expressed our concerns relating to the cultural resources mitigation language and an incorrect reference to SB18. While the SB18 reference was removed, there remains some mitigation language which is not consistent with previous measures used by the City on previous projects. We have provided our suggested revisions below.

Sacred Is The Duty Trusted Unto Our Care And With Honor We Rise To The Need

Letter 2-5 Continued

Pechanga Comment Letter to the City of Wildomar
Re: Pechanga Tribe Comments on TR 36497
December 20, 2013
Page 2

PECHANGA CULTURAL AFFILIATION TO PROJECT AREA

The Pechanga Tribe asserts that the Project area is part of Luiseño, and therefore the Tribe's, aboriginal territory as evidenced by the existence of Luiseño place names, *tóota yixélval* (rock art, pictographs, petroglyphs), traditional landscapes, cultural areas and an extensive Luiseño artifact record in the vicinity of the Project. This culturally sensitive area is affiliated with the Pechanga Band of Luiseño Indians because of the Tribe's cultural ties to this area as well as the close proximity of the Project to the Tribal reservation lands.

The Pechanga Tribe has a specific legal and cultural interest in this Project as the Tribe is culturally affiliated with the geographic area that comprises the Project property and is the closest affiliated tribe to the Property. The Tribe has been named the Most Likely Descendent (Cal. Pub. Res. C. §5097.98) on Projects in the nearby vicinity of the proposed Project and has specific knowledge of cultural resources and sacred places near the proposed Project which we have shared with the City on previous occasions and in our June 11, 2013 comment letter.

REQUESTED TRIBAL INVOLVEMENT AND MITIGATION

The Pechanga Band is not opposed to this Project; however, we are opposed to any direct, indirect and cumulative impacts this Project may have to tribal cultural resources. The Tribe's primary concerns stem from the Project's proposed impacts on Native American cultural resources. The Tribe is concerned about both the protection of unique and irreplaceable cultural resources, such as Luiseño village sites, sacred sites and archaeological items which would be displaced by ground disturbing work on the Project, and on the proper and lawful treatment of cultural items, Native American human remains and sacred items likely to be discovered in the course of the work.

The Tribe is in receipt of the Phase I Cultural Resources Survey and the Initial Study for this Project. Based upon the information provided and our internal documents, the proposed Project is located within a sensitive region of Luiseño territory. The Tribe is aware of three previously recorded artifacts locations immediately adjacent to this Project. Furthermore, there are several blue-line streams located within a very close proximity as well as an existing drainage within the Project boundaries. The presence of water, as well as the previously recorded sites in this area, are all good indicators that cultural resources may be identified within the Project. The Tribe therefore concurs with the conclusion in the archaeological study recommending both professional archaeological and tribal monitoring during all earthmoving activities.

PROJECT MITIGATION MEASURES

At this time, the Tribe thanks the City of Wildomar for working closely with us to develop appropriate and adequate mitigation measures. The Tribe appreciates the inclusion of archaeological and tribal monitoring during all earthmoving activities; however, the Tribe

Pechanga Cultural Resources • Temecula Band of Luiseño Mission Indians
Post Office Box 2183 • Temecula, CA 92592

Sacred Is The Duty Trusted Unto Our Care And With Honor We Rise To The Need

Letter 2-5 Continued

Pechanga Comment Letter to the City of Wildomar
Re: Pechanga Tribe Comments on TR 36497
December 20, 2013
Page 3

recommends a few minor changes to maintain consistency within the language. We request that these measures/conditions of approval with the minor edits listed below to be incorporated into the final EA and any other final environmental documents approved by the City.

CUl-l Prior to development approval on the project site and issuance of any grading, building, or other permit authorizing ground-disturbing activity, the project applicant(s) shall include the following wording in all construction contract documentation:

If during grading or construction activities cultural resources are discovered on the project site, work shall be halted immediately within 50 feet of the discovery and the resources shall be evaluated by a qualified archeologist and the Pechanga Tribe (Tribe). Any unanticipated cultural resources that are discovered shall be evaluated and a final report prepared, by the qualified archaeologist. The report shall include a list of the resources discovered, documentation of each site/locality, and interpretation of the resources identified, and the method of preservation and/or recovery for identified resources. In the event the significant resources are recovered and if the qualified archaeologist and the Tribe determines the resources to be historic or unique, avoidance and/or mitigation would be required pursuant to and consistent with CEQA Guidelines Sections 15064.5 and 15126.4 and Public Resources Code Section 21083.2 and the Cultural Resources Treatment and Monitoring Agreement required in CUL-2.

CUL-2 At least 30 days prior to seeking a grading permit, the project applicant(s) shall contact the appropriate Tribe[1] to notify the Tribe of grading, excavation, and the monitoring program and to ~~coordinate with the City of Wildomar and the Tribe to~~ develop a Cultural Resources Treatment and Monitoring Agreement between the Tribe and the applicant. The agreement shall include, but not be limited to, outlining provisions and requirements for addressing the treatment of cultural resources; project grading and development scheduling; terms of compensation for the monitors; and treatment and final disposition of any cultural resources, sacred sites, and human remains discovered on the site; and establishing on-site monitoring provisions and/or requirements for professional Tribal monitors during all ground-disturbing activities. A copy of this signed agreement shall be provided to the Planning Director and Building Official prior to the issuance of the first grading permit. **2-5-1**

CUL-3 Prior to development approval on the project site and issuance of any grading, building, or other permit authorizing ground-disturbing activity, the project applicant(s) shall include the following wording on all construction contract documentation:

[1] ~~The appropriate Tribe will be selected from the list of Tribal representatives provided by the Native American Heritage Commission and included in **Appendix 5**.~~ It is anticipated that the Pechanga Tribe will be the "appropriate" Tribe due to their prior and extensive coordination with the City and project applicant in determining potentially significant impacts and appropriate mitigation measures. **2-5-2**

Pechanga Cultural Resources • Temecula Band of Luiseño Mission Indians
Post Office Box 2183 • Temecula, CA 92592

Sacred Is The Duty Trusted Unto Our Care And With Honor We Rise To The Need

Letter 2-5 Continued

Pechanga Comment Letter to the City of Wildomar
Re: Pechanga Tribe Comments on TR 36497
December 20, 2013
Page 4

If human remains are encountered, California Health and Safety Code Section 7050.5 requires that no further disturbance shall occur until the Riverside County Coroner has made the necessary findings as to origin. Further, pursuant to California Public Resources Code Section 5097.98(b), remains shall be left in place and free from disturbance until a final decision as to the treatment and disposition has been made. If the Riverside County Coroner determines the remains to be Native American, the Native American Heritage Commission shall be contacted within a reasonable time frame. Subsequently, the Native American Heritage Commission shall identify the "most likely descendant" within 24 hours of receiving notification from the Coroner. The most likely descendant shall then have 48 hours to make recommendations and engage in consultations concerning the treatment of the remains as provided in Public Resources Code Section 5097.98.

CUL-4 All cultural materials – with the exception of sacred items, burial goods and human remains which will be addressed in the Treatment Agreement required in CUL-2, that are collected during the grading monitoring program and from any previous archaeological studies or excavations on the project site shall be curated according to the current professional repository standards. The collections and associated records shall be transferred, including title, to the Pechanga Tribe's curation facility which meets the standards set forth in 36 CRF Part 79 for federal repositories.

CUL-5 All sacred sites, should they be encountered within the project site, shall be avoided and preserved as the preferred mitigation, if feasible as determined by a qualified professional in consultation with the Pechanga Tribe. To the extent that a sacred site cannot be feasibly preserved in place or left in an undisturbed state, mitigation measures shall be required pursuant to and consistent with Public Resources Code Section 21083.2 and CEQA Guidelines Sections 15064.5 and 15126.4.

CUL -6 Prior to development approval on the project site and issuance of any grading, building, or other permit authorizing ground-disturbing activity, the project applicant(s) shall include the following wording on all construction contract documentation:

If inadvertent discoveries of subsurface archaeological resources are discovered during grading, work shall be halted immediately within 50 feet of the discovery and the Developer, the project archaeologist and the Tribe shall assess significance of such resources and shall meet and confer regarding the mitigation for such resources. If the developer and the Tribe cannot agree on the significance or the mitigation for such resources, these issues will be presented to the City of Wildomar Planning Director. The Planning Director and shall make the determination based on the provisions of CEQA with respect to archaeological resources and shall take into account the religious beliefs, customs, and practices of the Pechanga Tribe. Notwithstanding any other rights available under the law, the decision of the Planning Director shall be appealable to the City of Wildomar. In the event the significant resources are recovered and if the qualified archaeologist determines the resources to be historic or unique as defined by relevant

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Letter 2-5 Continued

Pechanga Comment Letter to the City of Wildomar
Re: Pechanga Tribe Comments on TR 36497
December 20, 2013
Page 5

state and local law, avoidance and mitigation would be required pursuant to and consistent with Public Resources Code Section 21083.2 and CEQA Guidelines Sections 15064.5 and 15126.4.

CUL-7 To address the possibility that cultural resources may be encountered during grading or construction, a qualified professional archaeologist shall monitor all construction activities that could potentially impact archaeological deposits. However, monitoring may be discontinued as soon the qualified professional is satisfied that construction will not disturb cultural ~~and/or paleontological~~ resources. **2-5-3**

The Pechanga Tribe looks forward to continuing to work together with the City of Wildomar in protecting the invaluable Pechanga cultural resources found in the Project area. Please contact me at 951-770-8104 or at ahoover@pechanga-nsn.gov once you have had a chance to review these comments if you have any comments or concerns. Thank you.

Sincerely,

Anna Hoover
Cultural Analyst

Cc Pechanga Office of the General Counsel

Pechanga Cultural Resources • Temecula Band of Luiseño Mission Indians
Post Office Box 2183 • Temecula, CA 92592

Sacred Is The Duty Trusted Unto Our Care And With Honor We Rise To The Need

Second Distribution
Response to Comment Letter 2-5
Pechanga Cultural Resources
December 20, 2013

2-5-1 Since the City of Wildomar would be responsible for monitoring and implementing the Cultural Resources Treatment and Monitoring Agreement required by mitigation measure CUL-2, the City must be included in the development of any agreement.

2-5-2 As requested by the commenter, the following addition will be made as a footnote associated with mitigation measure CUL-2 on page 68 of the third and current IS/MND:

> It is anticipated that the Pechanga Tribe will be the "appropriate" Tribe due to their prior and extensive coordination with the City and the project applicant in determining potentially significant impacts and appropriate mitigation measures.

This proposed change does not instigate recirculation of the IS/MND because it does not make any substantial revisions per CEQA Guidelines Section 15073.5, which state that a lead agency (the City) is required to recirculate a negative declaration in the case that the document must be substantially revised after public notice of its availability has previously been given. A "substantial revision" is defined as a new, avoidable significant effect which requires the addition of mitigation measures or project revisions in order to reduce the effect to insignificance, or a new, significant effect which cannot be mitigated to a less than significant level.

2-5-3 The City circulated the third and current IS/MND from June 16, 2014 through July 16, 2014. In this version of the IS/MND, the words, "and/or paleontological" have been deleted as requested by the commenter. The omission does not instigate recirculation of the IS/MND because it does not make any substantial revisions per CEQA Guidelines Section 15073.5

Letter 2-6

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ecological Services
Palm Springs Fish and Wildlife Office
777 East Tahquitz Canyon Way, Suite 208
Palm Springs, California 92262

In Reply Refer To:
FWS-WRIV-14B0062-14CPA0015

Mr. Matthew Bassi
Planning Director
City of Wildomar
23873 Clinton Keith Rd, Suite 201
Wildomar, CA 92592

Subject: Initial Study and Mitigated Negative Declaration for the Lennar Amberwood Residential Project and Tentative Tract Map 36497, City of Wildomar, Riverside County, California

Dear Mr. Bassi:

The U.S. Fish and Wildlife Service (Service) has reviewed the Initial Study and Mitigated Negative Declaration (Study) for the Lennar Amberwood Residential Project and Tentative Tract Map 36497 (Project), which we received on December 5, 2013. The primary concern and mandate of the Service is the protection of public fish and wildlife resources and their habitats. The Service has legal responsibility for the welfare of migratory birds, anadromous fish, and endangered animals and plants occurring in the United States. The Service is also responsible for administering the Endangered Species Act of 1973 (Act), as amended (16 U.S.C. 1531 *et seq.*).

On June 22, 2004, the Service issued a section 10(a)(1)(B) permit for the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The MSHCP established a multiple species conservation program to minimize and mitigate habitat loss and the incidental take of covered species in association with activities covered under the permit. Permittees ensure covered activities are consistent with the MSHCP, its associated Implementing Agreement, and section 10(a)(1)(B) permit. The Service is providing the following comments as they relate to the project's consistency with the MSHCP.

The Project design includes the construction of 67 single-family homes on 5,000 square foot lots. The Project proposes to develop approximately 17 acres and designate an additional 17 acres as open-space. The proposed Project site is generally located at the southwest corner of Prielipp Road and Elizabeth Lane, in the City of Wildomar, Riverside County, California. The entire Project site is located within the MSHCP Plan Area and within the Elsinore Area Plan. The site is not located within an MSHCP Criteria Cell.

The Study and associated Habitat Assessment identify two riparian/wetland areas within the Project area. The Study concludes that, although one of the riparian areas may meet the

Letter 2-6 Continued

Mr. Matthew Bassi (FWS-WRIV-14B0062-14CPA0015) 2

MSHCP definition of riparian/riverine, the second does not meet the MSHCP definition of riparian/riverine because it was artificially created.

MSHCP Section 6.1.2 defines riparian/riverine areas as lands that contain habitat dominated by tree, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or that depend upon soil moisture from nearby fresh water sources; or areas with fresh water flow during all or a portion of the year. The purpose of the riparian/riverine policy is to ensure the biological functions and values of these areas throughout the MSHCP Plan Area are maintained such that habitat values for species inside the MSHCP Conservation Area are maintained. The Project Habitat Assessment identified plant species typically observed in riparian, riverine, and wetland systems including willow herb (*Epilobium campesre*), Fremont cottonwood (*Populus fremontii*), Gooding's willow (*Salix gooddingii*), red willow (*Salix laevigata*), and arroyo willow (*Salix lasiolepis*). The on-site riparian/wetland areas are connected to and support adjacent downstream riparian and riverine habitat. A portion of this downstream habitat is located within Subunit 1 Murrieta Creek of the MSHCP Conservation Area. In addition, the two on-site riparian/wetland areas appear to transport hydrologic flows that are tributary to major regional watershed features (e.g., Murrieta Creek and Santa Margarita River). Therefore, the two riparian/wetland areas identified in the Study meet the definition of riparian/riverine areas consistent with the MSHCP and are subject to the riparian/riverine policy.

The Study concludes that riparian/wetland area 2 is exempt from the MSHCP riparian and riverine policy because it is an artificially created wetland. Analysis of historical aerial imagery indicates that a berm was constructed near the southern extent of this area. The Study indicates the berm was created to allow for the ponding of surface water. In 2003, extensive ponding water was present within this area. In addition, the berm was built within an existing natural stream course. According to the Revised Jurisdictional Delineation, a small wetland occurs within riparian/wetland area 2 (Crawford 2012). The MSHCP Riparian/Riverine Policy includes artificially created riparian/wetland areas if those areas were created for the purpose of providing wetland Habitat, a result of human actions to create open waters, or altered natural stream courses. Because the berm was constructed to create open water and the habitat currently within riparian/wetland area 2 resulted from the alteration of a natural stream course, this area would be defined as a riparian/riverine area and is subject to the Riparian/Riverine Policy. **2-6-1**

If impacts to riparian/riverine resources are not avoided, a Determination of Biologically Equivalent or Superior Preservation (DBESP) analysis will be required. Because riparian/wetland area 2 is within the Project impact area and resulted from human actions to create open waters and is an alteration of a natural stream course, it is an exception to the artificially created wetland habitat discussion in the Riparian/Riverine Policy. The Service requests a DBESP be prepared that includes an assessment of Project impacts to all areas subject to the Riparian/Riverine Policy. The DBESP should include an assessment of any impacts from the proposed Project to all hydrologic features covered by the Riparian/Riverine Policy, mitigation for unavoidable impacts to those features, and an

Letter 2-6 Continued

Mr. Matthew Bassi (FWS-WRIV-14B0062-14CPA0015) 3

analysis sufficient to demonstrate that the proposed mitigation would result in preservation equal or superior to an avoidance alternative.

Lastly, the Study described that any avoided riparian and riverine areas would be conserved and protected. Also, the Study indicated the subsequent homeowners association of the completed project, or another entity designated by the project applicant, shall preserve and manage the avoided on-site riparian and riverine areas in accordance with the MSHCP requirements. Project designs that incorporate avoidance must ensure the long-term conservation of the areas to be avoided through the use of a conservation easement, deed restriction, or other mechanisms. The Service requests clarification regarding the legal instrument that will be used to conserve the on-site avoided riparian and riverine areas. **2-6-2**

Thank you for the opportunity to review and comment on the Initial Study and Mitigated Negative Declaration. If you have any questions or comments about this letter or the MSHCP in general, please contact Chris Allen of the Service at 760-322-2070, extension 215.

Sincerely,

for Kennon A. Corey
Assistant Field Supervisor

Letter 2-6 Continued

Mr. Matthew Bassi (FWS-WRIV-14B0062-14CPA0015) 4

Literature Cited:

Crawford, Scott. Michael Brandman Associates. Preliminary Jurisdictional Delineation Report Dated March 2012.

Second Distribution
Response to Comment Letter 2-6
US Fish and Wildlife Service
December 23, 2013

2-6-1. In response to the concern of the US Fish and Wildlife Service (USFWS), on February 13, 2014, the project applicant circulated the updated Determination of Biologically Equivalent or Superior Preservation (DBESP) (attached to the third and current IS/MND as Appendix 4e) to the USFWS, the California Department of Fish and Wildlife, and the Riverside Conservation Authority for review. The updated DBESP analyzed the potential environmental impacts of the proposed project. As stated on page 50 of the third and current IS/MND, the total amount of riparian/riverine area associated with Feature 2 is 0.159 acres. The wildlife agencies consider the man-made pond and associated upland swales to be a secondary tributary to Murrieta Creek. For the purposes of this project, the upland swales were reclassified as riparian/riverine habitat based on a hydrologic connection to Murrieta Creek. As stated on page 54, Implementation of mitigation measure BIO-7 will require that the project applicant purchase off-site mitigation credits to offset the project's impacts to the man-made pond and associated swales (Feature 2). Implementation of this mitigation would ensure a less than significant impact to riparian/riverine areas and consistency with related MSHCP policies.

2-6-2. Please refer to mitigation measure BIO-5 on pages 59 – 61 of the third and current IS/MND. Mitigation measure BIO-5 states that a homeowners association of the project, or another entity designated by the project applicant and approved by the City, shall preserve and manage the conservation area required by BIO-4 in accordance with MSHCP requirements, as well as the applicable regulatory requirements of the CDFW, the USACE, and/or the State Water Resources Control Board. The preservation and management of the conservation area shall be subject to a Habitat Management Plan (HMP) prepared by a qualified biologist. In addition, the Habitat Management Plan shall be funded, developed and implemented by the applicant and/or the Home Owners Association ("HOA") of the completed project, and that Plan shall be submitted to the City for review and approval prior to any clearing and/or construction activity. Mitigation measure BIO-5 highlights the provisions that are required to be contained in the HMP as well as other performance standards regarding specific management of conservation methods to be applied to the riparian/riverine features on the project site.

Letter 2-7

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL™ Company

December 30, 2013

Matthew C. Bassi, Planning Director
City of Wildomar, Planning Department
23837 Clinton Keith Road, Suite 201
Wildomar, CA 92595

Re: Lennar Homes—Tentative Tract Map No. 36497 & Plot Plan No. 12-0364 (Planning Application No. 12-0364)

Southern California Edison (SCE) appreciates the opportunity to provide comments on the Lennar Homes project that is located on the southwest corner of Prielipp Road and Elizabeth Lane in the City of Wildomar. Electric service in this area is provided by SCE. SCE's electrical system consists of a network of facilities (electrical distribution, transmission, and generation systems). We appreciate the notice for development.

SCE's rights-of-way and fee-owned properties are purchased for the exclusive use of SCE to operate and maintain its present and future facilities. Any proposed use will be reviewed on a case-by-case basis by SCE. Approvals or denials will be in writing based upon review of the maps provided by the developer and compatibility with SCE right-of-way constraints and rights. In the event the project proposes to impact SCE facilities or its land related rights, please forward five (5) sets of project plans, and a PDF copy of the same, depicting SCE's facilities and its associated land rights to the following location for review as noted above:

Real Properties Department
Southern California Edison Company
2131 Walnut Grove Avenue
G.O.3 – Second Floor
Rosemead, CA 91770

Please be advised if development plans result in the need to build new or relocate existing SCE electrical facilities that operate at or above 50 kV, the SCE construction may have environmental consequences subject to CEQA review as required by the California Public Utilities Commission (CPUC). If those environmental consequences are identified and addressed by the local agency in the CEQA process for the larger project, SCE may not be required to pursue a later, separate, mandatory CEQA review through the CPUC's General Order 131-D (GO 131-D) process. If the SCE facilities are not adequately addressed in the CEQA review for the larger project, and the new facilities could result in significant environmental impacts, the required additional CEQA review at the CPUC could delay approval of the SCE power line portion of the project for two years or longer.

If you have any questions regarding this letter, please do not hesitate to contact me at Jeremy.Goldman@sce.com or (951) 249-8466.

Sincerely,

Jeremy Goldman
Local Public Affairs Region Manager
Southern California Edison Company

Second Distribution
Response to Comment Letter 2-7
Southern California Edison
December 30, 2013

The commenter did not provide any comments regarding the adequacy of the IS/MND. The City of Wildomar will notify Southern California Edison (SCE) of any changes to the proposed project design that may affect SCE facilities or demand forecasts.

Letter 3-1

Johnson & Sedlack
ATTORNEYS at LAW

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July 16, 2014

City of Wildomar
23873 Clinton Keith Road, Suite 201
Wildomar, CA 92595

VIA PERSONAL DELIVERY AND EMAIL

RE: Lennar Residential Project, Tentative Tract Map 36497 (PA 12-0364), Initial Study/ Mitigated Negative Declaration.

Greetings:

On behalf of Alliance for Intelligent Planning, I hereby submit these comments on, and in opposition to, the recirculated Initial Study/ Mitigated Negative Declaration for the Lennar Residential Project, TTM 36497 ("Project").

The Project foresees the development of TTM 36497 subdividing 5 parcels, totaling 23.2 acres, into 67 single family lots; 5.6 acres of open space; and a detention/water quality basin. The Project would rezone from Rural Residential to Planned Residential R-4.

The California Environmental Quality Act ("CEQA") was adopted as a disclosure and transparency document. The theory is that by providing a document that adequately describes the environmental consequences of a project to decision makers and the public, the decision makers will make a rational decision based upon the true environmental consequences of the project and if they do not, the electorate can hold them accountable for their decisions. The core of this statutory structure is the adequacy of the document as an informational document.

The EIR requirement is the "heart of CEQA." (State CEQA Guidelines § 15003(a). An EIR is required for any proposed project that may have a significant effect on the environment. (Public Resources Code § 21100 (a)) A lead agency may prepare a mitigated negative declaration for a proposed project only when: (1) revisions in the project would avoid or mitigate the potentially significant project effects to a point where *clearly* no significant effects would occur; and (2) there is no substantial evidence in light of the whole record that the project as revised *may* have a significant effect on the environment. (State CEQA Guidelines § 15070 (b))

CEQA also mandates that mitigation measures be certain, enforceable, and not deferred. (Guidelines § 15126.4) "Formulation of mitigation measures should not be deferred until some future time. (Guidelines § 15126.4(a)(1)(B).) Deferral can be found improper if unnecessary and

Letter 3-1 Continued

July 16, 2014
Page 2

no reason is given for such deferral. (*Sacramento Old City Assn. v. City Council* (1991) 229 Cal.App.3d 1011, 1028-9; 1 Kostka & Zischke Mitigation Measures § 14.12, p. 699.) The recirculated MND still relies on vague, unenforceable, and deferred mitigation measures not permitted by law. Moreover, all feasible mitigation has not been adopted for this Project.

The adoption of the recirculated Mitigated Negative Declaration ("MND") for the Lennar Residential Project, TTM 36497 (PA 12-0364) (the "Project"), is improper where, as here, there is substantial evidence in the record of a fair argument of significant environmental impacts as a result of the project. Significant impacts are not shown to be mitigated below a level of significance. For the reasons detailed below, and detailed in the comment letters previously submitted on the MND for this Project and incorporated herein by reference, an EIR must be prepared for this Project.

Aesthetics
As previously noted, the site is currently undeveloped and existing land uses include rural residential and vacant lands to the west, north, and south. Despite these existing rural or vacant uses, the recirculated MND finds a less than significant impact to views or the scenic/ visual quality of the site from rezoning the site from Rural-Residential to Planned Residential R-4 and developing Medium High Density Residential. This finding is unsupported by the zone change and existing surrounding land uses and rural visual character on-site. **3-1-1**

Soils Work: Air Quality, Traffic, Noise, etc.
Over-excavation of the Project site to a depth of 2-4 feet, up to 8 feet and deeper, is anticipated across the Project site. The recirculated MND states grading will move approximately 130,800 cubic yards of soil. The MND, however, provides no discussion of the potential amount of soils to be imported/exported and fails to evaluate potential construction air quality and traffic impacts from this soils work.

One haul truck load moves usually around 11- 22 cubic yards of soil, and one cubic yard of soil weighs approximately 1- 1.35 tons. (e.g. <http://www.cpuc.ca.gov/Environment/info/aspen/santafe/SFPP-EIR/initial/8-4.htm> [assuming 12 cy truck]; <http://www.calrecycle.ca.gov/swfacilities/cdi/Tools/Calculations.htm>, <http://www.cmsgsand.com/conversion.html>.) Even very liberal estimates for soils/truck load limits capacity at 30 cubic yards. (*See, e.g.* First Inland Logistics Center Final EIR, prepared by City of Moreno Valley (November 2013) Response to Comments < http://www.moval.org/misc/filc-ii-feir.shtml>) **3-1-2**

The number of truck trips to move 130,800 cubic yards of soil amounts to between approximately 23,782 truck trips (construction (11,891 loads x 2 trips [one full truck in/ one empty truck out]) and 8,720 truck trips during construction (4,360 loads x 2 trips). Over the 20 days of grading assumed in the MND, this amounts to between approximately 1,189 and 436 truck trips per day in this rural residential area. An EIR must be prepared to evaluate this potentially significant effect to at least air quality, transportation and noise.

The MND also fails to disclose the origin of soil imports or exports, or vehicle miles expected to be travelled for such purposes. There is likewise no mitigation measure adopted to reduce these air quality, traffic, or noise impacts below significance. **3-1-3**

Letter 3-1 Continued

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Page 3

Biological Impacts
Mitigation for nesting birds and burrowing owls is impermissibly vague. There is also no justification for deferral of preparation of a relocation plan for burrowing owls discovered onsite. These mitigation measures must be amended to provide specificity and ensure that such measures are enforceable. **3-1-4**

Noise Impacts
The recirculated MND incorrectly states that there are no adopted construction noise standards, so the Project could not generate noise in excess of such standards. **3-1-5** While the MND acknowledges that the Project is subject to the noise levels set forth in the Wildomar General Plan, the MND fails to consider or mitigate construction noise that is expected to exceed the General Plan's 65 dBA CNEL exterior standard. Despite being exempt from municipal code standards for construction, construction of the Project is still anticipated to exceed the noise standards outlined in the General Plan. Construction noise impacts should be deemed significant. An EIR must be prepared to evaluate this effect absent the adoption of mitigation needed to render the impact less than significant. **3-1-6**

Further, the mitigation adopted for construction noise impacts will not demonstrably reduce such impacts below a level of significance. NOI-1 is vague and unenforceable, requiring for instance that staging areas be located "as far as possible" from residential land uses. Some numerical limit (e.g. at least 100 ft.) should be adopted to render this mitigation measure enforceable. Notification and the ability to complain also fails to actually mitigate for noise impacts absent a requirement that action be taken to remedy any noise issues within 24 hours. Additionally, the requirement that a temporary noise barrier be erected along the Project boundaries is vague. NOI-1 should specify the type of material and height required to obtain an attenuation level that reduces construction noise impacts to below a level of significance. (*See* HUD, *Noise Guidebook*, Chapter 4 Noise Attenuation (March 2009) < http://portal.hud.gov/hudportal/documents/huddoc?id=DOC_16417.pdf >.) **3-1-7**

As with the prior evaluation, the recirculated MND omits consideration of increases in either construction noise or operational noise to ambient noise levels. The recirculated MND states that since construction noise impacts "would not approach a dangerous threshold", which is 140 dB, and NOI-1 would reduce construction noise impacts, the impacts to temporary ambient noise levels is less than significant. However, the "dangerous threshold" is not the appropriate threshold; rather, the issue is whether ambient noise would be increased above existing noise levels. The Project is expected to cause construction noise impacts above the General Plan's 65 dBA CNEL exterior standard, and thus will cause significant noise impacts well above existing ambient noise levels. Noise increases may be particularly significant on this presently undeveloped site and in an area with rural residences, as the existing noise levels are relatively low so that increases may be more markedly perceived. Moreover, NOI-1 will not demonstrably reduce construction noise impacts below a level of significance. Therefore, an EIR must be prepare to consider these significant impacts. **3-1-8**

Under CEQA, consideration must be given to the magnitude of any noise increase, the existing ambient noise levels, and the location of noise-sensitive receptors in order to determine if a noise increase represents a significant adverse environmental effect. This is because noise impacts

Letter 3-1 Continued

July 16, 2014
Page 4

may be greater if substantial increases occur in a relatively quiet area, or if noise is added to an existing high noise level in a manner that increases noise to a problem/tipping point level. (*See, e.g., Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1122-23.) Attachments to our prior letter, incorporated herein by reference, detail the properties of noise and its potential effects on people, including where noise increases occur in a relatively quiet area. Preparation of an EIR is needed to quantify, disclose, and mitigate the noise impacts of this Project to the extent feasible. **3-1-8 cont**

Traffic
As discussed previously the MND omits consideration of impacts along at Clinton Keith Rd. and I-15 on-/off-ramps and along I-15 despite the fact that most Project trips will use Clinton Keith to access I-15. The Caltrans Guidelines (http://www.dot.ca.gov/hq/tpp/offices/ocp/igr_ceqa_files/tisguide.pdf) provides that a traffic impact study evaluating traffic mainlines should be prepared where a project:

1. Generates over 100 peak hour trips assigned to a State highway facility
2. Generates 50 to 100 peak hour trips assigned to a state highway facility- and affected state highway facilities are experiencing noticeable delay; approaching unstable traffic flow conditions (LOS "C" or "D").
3. Generates 1 to 49 peak hour trips assigned to a State highway facility- the following are examples that may require a full TIS or some lesser degree of analysis:
    a. Affected State highway facilities experiencing significant delay; unstable or forced traffic flow conditions (LOS "E" or "F").
    b. The potential risk for a traffic incident is significantly increased (i.e., congestion related collisions, non-standard sight distance considerations, increase in traffic conflict points, etc.).
    c. Change in local circulation networks that impact a State highway facility.

3-1-9

The recirculated MND's claim that impacts will be less than significant as they would only increase vehicle counts by 0.24 percent fails to evaluate Project impacts pursuant to these Caltrans Guidelines.

The omission of evaluation of highway and ramp impacts pursuant to Caltrans methodology renders the recirculated MND and its determination that the Project will have a less than significant impact inadequate and unsupported. **3-1-10**

Moreover, as discussed above, the recirculated MND omits consideration of construction traffic impacts where the Project may add huge numbers of haul trucks to roadways during construction. Impacts to traffic during construction may be substantial and were not considered in the EIR. **3-1-11**

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Letter 3-1 Continued

July 16, 2014
Page 5

Conclusion
For each of these reasons, an EIR must be prepared for the Lennar Residential Project.

Sincerely,

Raymond W. Johnson
JOHNSON & SEDLACK

Attachments: (1) Johnson & Sedlack Comment letter dated June 21, 2013.
(2) Johnson & Sedlack Comment letter dated December 16, 2013.

Third Distribution
Response to Comment Letter 3-1
Johnson & Sedlack
July 16, 2014

3-1-1 Please refer to Responses 1-4-4 and 2-4-1.

3-1-2 Please see Response 2-4-2.

3-1-3 Please see Response 2-4-2.

3-1-4 Please refer to Responses 1-4-10, 1-4-13, 2-4-4, and 2-4-5

3-1-5 Please see Responses 1-4-20, 2-4-8, and 2-4-10.

3-1-6 Please see Responses 1-4-20, 2-4-8, and 2-4-10.

3-1-7 Please see Responses 1-4-20, 2-4-8, and 2-4-10.

3-1-8 Please see Responses 1-4-20, 2-4-8, 2-4-10, and 2-4-11. 3-1-9. Please refer to Responses 1-4-20 and 2-4-13. The City establishes the scope of the traffic analysis based on the anticipated trips and distribution associated with the project. The scope of the traffic impact analysis conducted for the project was approved by the City as noted in the analysis. While 50 peak hour trips at area intersection is as a guide to determine the scope of the analysis, the City makes the final determination on the scope of the analysis.

3-1-9 Please see Responses 1-4-20

3-1-10 Please refer to Responses 1-4-20 and 2-4-13.

3-1-11 Please see Response 2-4-14.

Letter 3-2

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL AND USPS: June 25, 2014

Mr. Matthew C. Bassi, Director mbassi@cityofwildomar.org
Planning Department
City of Wildomar
23873 Clinton Keith Rd, Ste 201
Wildomar, CA 92595

Draft Initial Study/Mitigated Negative Declaration (Draft IS/MND) for the Proposed Lennar Residential Project (Planning Application 12-0364)

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final CEQA document.

The Lead Agency proposes the construction of 67 single-family residences, a private park, detention and water quality basins, and allow for open space on a 24-acre site. The project will take approximately 15 months to complete starting in 2013. In the Air Quality Section, the Lead Agency quantified the project's construction and operation air quality impacts and has compared those impacts with the SCAQMD's recommended regional and localized daily significance thresholds.

Based on the proximity of the prospective residential units to the nearby Interstate 15 Freeway, the proposed project could increase the number of residential units to be placed in close proximity to that freeway that currently carries up to 126,000 vehicles per day. As a result, these sensitive land uses could be exposed to a significant source of toxic emissions. On page 42, the Lead Agency mentions the 500 foot buffer recommended by the California Air Resources Board's (CARB) Land Use and Air Quality Handbook (CARB Handbook) that offers guidance for siting sensitive receptors near sources of air toxics. Based on the Lead Agency's own estimate and an aerial map inspection, the nearest residence would be approximately 485 feet from the I-15 Freeway. The Lead Agency then addressed this potential impact by performing a screening evaluation for cancer risks that is not consistent with SCAQMD's recommended CEQA significance threshold for Maximum Incremental Cancer Risk (MICR): 10 in 1 million or greater lifetime probability of contracting cancer. Specifically, the Lead Agency selected a cancer risk threshold of 276 per one million[1] that is based on Sacramento Metropolitan Air Quality Management District's (SMAQMD) Roadway Protocol Guidance. Because

3-2-1

3-2-2

[1] This screening criteria is based on the SMAQMD's Recommended Protocol for Evaluating the Location of Sensitive Land Uses Adjacent to Major Roadways available at: http://www.airquality.org/ceqa/RoadwayProtocol.shtml .

Letter 3-2 Continued

Mr. Matthew C. Bassi, Director 2 June 25, 2014
Planning Department

the Draft MND analysis relies on screening criteria from Sacramento area meteorology and roadway configurations, its application to the project area is unclear. The SCAQMD staff recommends that the Final MND either provide, or commit to providing in future CEQA documents, project and site specific air quality data to demonstrate the project's health risk impacts. Therefore, in the absence of other substantial evidence, the SCAQMD staff recommends that the Lead Agency revise the Draft MND to include a Health Risk Assessment (HRA) consistent with the SCAQMD's recommended methodology [2] and applicable CEQA significance of threshold of 10 in 1 million or greater for MICR. Detailed information regarding the SCAQMD's CEQA Significance threshold for cancer risk impacts is available at: http://www.aqmd.gov/ceqa/hdbk.html . If upon revision of the Draft MND the HRA demonstrates significant health risk impacts the Lead Agency should provide mitigation pursuant to Section 15126.4 of the CEQA Guidelines. **3-2-2 cont.**

Please provide the SCAQMD with written responses to all comments contained herein prior to the adoption of the Final MND. The SCAQMD staff is available to work with the to address these issues and any other questions that may arise. Please contact Gordon Mize, Air Quality Specialist – CEQA Section, at (909) 396-3302, if you have any questions regarding these comments.

Sincerely,

Edward A. Eckerle
Program Supervisor
Planning, Rule Development & Area Sources

EE:GM

RVC140617-06
Control Number

[2] The SCAQMD Mobile Source HRA Guidance is available at: http://www.aqmd.gov/ceqa/handbook/mobile_toxic/mobile_toxic.html .

Third Distribution
Response to Comment Letter 3-2
South Coast Air Quality Management District
June 25, 2014

3-2-1 In terms of potential impacts to future sensitive receptors residing on the project site, in April 2005, the California Air Resources Board (CARB) released the *Land Use and Air Quality Handbook: A Community Health Perspective* (Land Use Handbook), which offers guidance on siting sensitive land uses in proximity to sources of air toxics. The Land Use Handbook recommends that sensitive land uses be sited no closer than 500 feet from a freeway or major roadway, a buffer area that was developed to protect sensitive receptors from exposure to DPM, which was based on traffic-related studies that showed a 70 percent drop in PM concentrations at a distance of 500 feet from the roadway. Presumably, acute and chronic risks as well as lifetime cancer risk due to DPM exposure are lowered proportionately. As stated on page 42 of the third and current IS/MND, the southwestern corner of the project site is within 485 feet of Interstate 15. This measurement was made per Google Earth from the nearest lane of Interstate 15 to the western-most boundary of the project site. However, as discussed on pages 44 and 45 of the IS/MND, the project site contains two areas with willow riparian habitat that were evaluated and are considered riparian/riverine areas, including a single drainage feature (Feature 1) which directs flows along the western portion of the project site and supports 1.88 acres of willow riparian habitat. As noted in the IS/MND, the project design will avoid any impact to Feature 1 by retaining the portion of the project site as open space. This fact is further demonstrated by Figure 3b of the IS/MND, which shows the entire western portion of the project site (approximately 5.6 acres) as open space and a detention basin. Therefore, while the nearest portion of the project site is within the 500 foot CARB-buffer, the nearest residential unit would be located approximately 780 feet from Interstate 15, and thus beyond the 500 buffer recommended by CARB.

3-2-2 While the homes are outside of the 500 foot buffer recommended by CARB as stated in 3-2-1, a Health Risk Assessment (HRA) was prepared for the proposed project to determine the potential risk. The HRA, included as Attachment C to this document, concludes that for carcinogenic exposures, the summation of risk for the maximum exposed residential receptor totaled 3.00E-06 (3 in one million) for the 30 year and 9.01E-07 (0.90 in one million) for the 9 year exposure scenarios. In comparison to the threshold level of ten in one million, carcinogenic risks will not exceed the applicable thresholds for both the 30 and 9 year exposure scenario. Therefore, carcinogenic exposures are calculated to be within acceptable limits and are less than significant.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both the 30 year and 9 year exposure scenarios. For acute exposures (i.e., 1 and 8-hour), the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 1.73 μg/m3 and 0.91 μg/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 μg/m3 and 1.0 μg/m3, respectively. For PM2.5, a maximum 24-hour average concentration of 0.74 μg/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5 μg/m3.

The maximum modeled 1-hour average concentration for CO of 0.04 parts per million (ppm) (44.51 μg/m3), when added to an existing background concentration of 2.7 ppm, would equal a total Project concentration of 2.74 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.03 ppm (37.36 μg/m3), when added to an existing background level of 0.70 ppm, would equal a total Project concentration of 0.73 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one hour concentration of 0.003 ppm (5.47 μg/m3) was predicted. This concentration, when added to a background concentration of 0.050 ppm, would equal a total Project concentration of 0.053 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who access and utilize outdoor amenities.

While the HRA provides additional information regarding the potential health risk, the information further clarifies the IS/MND's determination that the risk and potential impact is less than significant. The information does no result in a substantial revisions per CEQA Guidelines Section 15073.5, which state that a lead agency (the City) is required to recirculate a negative declaration in the case that the document must be substantially revised after public notice of its availability has previously been given. A "substantial revision" is defined as a new, avoidable significant effect which requires the addition of mitigation measures or project revisions in order to reduce the effect to insignificance, or a new, significant effect which cannot be mitigated to a less than significant level. The information clarifies the determination of less than significant for this impact.

3.0 Minor Revisions to the DEIR

3.1 INTRODUCTION

This section includes minor edits to the IS/MND. These modifications resulted from responses to comments received during the three public review periods as well as from staff-initiated changes.

Revisions herein do not result in new significant environmental impacts, do not constitute significant new information, and do not alter the conclusions of the environmental analysis. Changes are provided in revision marks (underline for new text and ~~strikeout~~ for deleted text).

3.2 MINOR CHANGES AND EDITS TO THE IS/MND

The following minor changes are made to clarify the IS/MND based on comments received on the project and review of those comments by the City and by the technical experts responsible for the supporting studies.

IS/MND

The following addition will be made on page 2 of the third and current IS/MND:

> The project proposes deviations regarding the minimum lot frontage for several lots in cul-de-sacs and knuckles in order to fulfill the project objectives, which include the proposal to develop 67 single-family lots. Specifically, the proposed deviations include a lot frontage of 30 feet for Lots 58 – 61; 31 feet for Lot 57; 36 feet for Lot 46; 39 feet for Lot 45; 31 feet for Lots 27 - 29; and 34 feet for Lot 26. City staff has reviewed the proposed deviations and determined that in the case of the project, the requested deviations could be implemented while still achieving the site design criteria governing the placement of driveways to allow for adequate site distance and turning movement, including for fire protection.

Mitigation measure CULT-11 on page 67 of the IS/MND is amended as follows:

> **CULT-11** Identification and curation of specimens into a professional, accredited public museum repository with a commitment to archival conservation and permanent retrievable storage shall occur at an institutional repository approved by the City of Wildomar. The paleontological program shall include a written repository agreement prior to the ~~initiation of mitigation activities~~ retrieval of any discovered paleontological resources.

The following addition will be made as a footnote associated with mitigation measure CUL-2 on page 68 of the third and current IS/MND:

> It is anticipated that the Pechanga Tribe will be the "appropriate" Tribe due to their prior and extensive coordination with the City and the project applicant in determining potentially significant impacts and appropriate mitigation measures.

The following addition will be made on page 96 of the third and current IS/MND.

NOI-1 Development on the project site shall implement the following construction noise mitigation measures to reduce potential construction noise impacts:

- Construction equipment staging and storage areas shall be located as far from the residential land uses as possible.
- All construction equipment shall be properly maintained with operating mufflers and air intake silencers as effective as those installed by the original manufacturer.
- Residents living up to 1,000 feet from the property line shall be provided with a construction schedule and contact information to file a complaint. Timely notification shall accompany any major changes to this schedule.
- A temporary noise barrier shall be erected along the project boundaries during all construction activities. *The noise barrier shall have a minimum STC 20 rating.*

Timing/Implementation: *During construction activities*

Enforcement/Monitoring: *City of Wildomar Building and Planning Departments*

ATTACHMENTS

Attachment A: Cut and Fill Balance Calculations

MEMORANDUM

DATE: **August 13, 2014**

TO: **Jarnne Valdez, Lennar Homes of California**

FROM: **Daniel J. O'Rourke, PE**

RE: **Job Name; Wildomar Tentative Tract 36497 (PA 12-0364), Briarwood**
Description; Earthwork Quantities
SB&O Job No. : 69562.20

Jarnne,

Our most recent earthwork volume calculations prepared during the final design stage of this project indicate:

Raw Cut:	124, 650 CY
Remedial Shrinkage:	(12,000) CY
Subsidence:	(1,500) CY
Subtotal:	111,150 CY
Raw Fill:	111,150 CY
Import/Export	0 CY

The site is expected to balance with no export, or import of earth.

ATTACHMENT B TRAMES TRAFFIC RESPONSE

TRAMES SOLUTIONS INC.

100 E San Marcos Blvd. Ste 400
San Marcos, CA 92069
(760) 291 - 1400

July 30, 2014

Ms. Jarnne J Valdez
Lennar Homes of California, Inc
980 Montecito Drive, Suite 302
Corona, CA 92879

Subject: Lennar Residential Project Response to Comments

Dear Ms. Valdez:

Trames Solutions is pleased to submit the following response to comments for the proposed Lennar Residential Project. It is our understanding that the project consists of 67 single family residential units located south of Prielipp Road and west of Elizabeth lane in the City of Wildomar.

Trames Solutions previously prepared a traffic study (Parkside (TM 36497) Traffic Impact Analysis, October 4, 2013) that evaluated the potential traffic impacts due to the proposed project.

Discussion

The traffic study that was prepared for the project included the following intersections based on the City of Wildomar's guidelines or requested by City Staff for analysis purposes. The guidelines indicate that intersections need to be analyzed where the project traffic contributes a minimum of 50 or more trips (to an intersection of a Collector roadway or higher with another Collector or higher roadway) during the peak hour. Based upon these guidelines, the traffic study analyzed the following intersections:

1. Prielipp Road/N. Project Driveway (project does not contribute more than 50 trips during the peak hour)
2. Elizabeth Lane/E. Project Driveway (project does not contribute more than 50 trips during the peak hour)
3. Elizabeth Lane/Prielipp Road (project contributes more than 50 trips during the peak hour for severe storm conditions only)
4. Inland Valley Dr./Prielipp Road (project does not contribute more than 50 trips during the peak hour)
5. Inland Valley Dr./Clinton Keith Road (project does not contribute more than 50 trips during the peak hour)
6. Nutmeg St./Jackson Ave. (project contributes more than 50 trips during the peak hour for severe storm conditions only)

Trip Generation:

Based on the 67 single family residential development, the project is expected to generate 641 trips per day with 51 trips during the AM peak hour and 68 trips during the PM peak hour. These estimates are based on the ITE Trip Generation Manual.

Trip Distribution:

It is anticipated that 45% of the project traffic will head west on Clinton Keith Road, 20% will head east on Clinton Keith Road, and 30% will head south on Jackson Ave. Since less than 50 peak hour trips would continue on Clinton Keith Road west of Inland Valley Drive, no additional intersections were analyzed – per the City's guidelines.

If 45% of the project traffic were routed further to the west on Clinton Keith Road, it is estimated that 10% of the project traffic would continue west on Clinton Keith Road past the interchange, 20% would head north on I-15, and 15% would head south on I-15. This results in the following project trip allocations to the turning movements at the two interchange intersections during the AM and PM peak hours:

I-15 SB Ramps

AM Peak Hour

SB Lefts – 3
EB Thru – 1
WB Lefts – 6
WB Thru – 4
Total = 14

PM Peak Hour

SB Lefts – 9
EB Thru – 4
WB Lefts – 4
WB Thru – 3
Total = 20

I-15 NB Ramps

AM Peak Hour

NB Right – 2
EB Thru – 4
WB Thru – 10
WB Rights – 8
Total = 24

PM Peak Hour

NB Right – 6
EB Thru – 13
WB Thru – 6
WB Rights – 6
Total = 31

Conclusion

The evaluation indicates that less than 49 trips would be assigned to either the northbound or southbound I-15 freeway ramps during the peak hours. It is important to note that the interchange has been recently improved and is operating at an acceptable level of service. Therefore, pursuant to the Caltrans Guide for the Preparation of Traffic Impact Studies, a traffic analysis is not required at the interchange intersections since the:

a) Affected State highway facilities (interchange intersections) are not experiencing a significant delay, unstable, or forced traffic flow conditions (LOS "E" or "F").

Trames Solutions, Inc. is currently working on a traffic study for another development in the City of Wildomar. We have evaluated the operations at the I-15/Clinton Keith interchange with the current improved geometry. Based on our analysis, the northbound and southbound freeway ramp intersections are operating at an acceptable level of service (LOS "D" or better) during both the AM and PM peak hours.

b.) The potential risk for a traffic incident is not significantly increased.

The recent freeway interchange improvements provide for appropriate sight distance to allow motorists to view oncoming vehicles while performing turning movements. The additional traffic added to the interchange intersections will not cause forced flow conditions that would increase the potential for unsafe maneuvers.

c.) There is no change in local circulation networks that impact a State highway facility.

The proposed project does not require a change to the local circulation network that would impact a State highway facility.

Respectfully submitted,

Trames Solutions Inc.

Scott Sato, P.E.

Senior Associate
scott@tramessolutions.com
(949) 244-2436

ATTACHMENT C HRA REPORT

TTM No. 36497

MOBILE SOURCE AIR TOXIC AND CRITERIA POLLUTANT HEALTH RISK ASSESSMENT

CITY OF WILDOMAR

PREPARED BY:

Haseeb Qureshi
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JULY 31, 2014

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LIST OF ABBREVIATED TERMS

(1)	Reference
AADT	Annual Average Daily Traffic Volumes
ARB	Air Resources Board
CAAQS	California Ambient Air Quality Standards
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
CO	Carbon Monoxide
CPF	Cancer Potency Factor
EPA	Environmental Protection Agency
HRA	Health Risk Assessment
LDA	Light Duty Auto
LDT	Light Duty Truck
LHD	Light Heavy Duty
MCY	Motorcycle
MDV	Medium Duty Vehicle
NO2	Nitrogen Dioxide
OBUS	Other Bus
OLM	Ozone Limiting
PM10	Particulate Matter 10 microns in diameter or less
PM2.5	Particulate Matter 2.5 microns in diameter or less
PPM	Parts per Million
Project	TTM No. 36497
PVMRM	Plume Volume Molar Ratio Methods
REL	Reference Exposure Level
RME	Reasonable Maximum Exposure
SBUS	School Bus
SCAQMD	South Coast Air Quality management District
TACs	Toxic Air Contaminants
UBUS	Urban Bus
URF	Unit Risk Factor
UTM	Universal Traverse Mercator

1 INTRODUCTION

In 2005, the California Air Resources Board (ARB) promulgated an advisory recommendation to avoid setting sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day or rural roads with 50,000 vehicles per day. According to the ARB, the increased cancer risk is 300 to 1,700 per million within this domain. The strongest association of traffic related emissions with adverse health outcomes was seen within 300 feet of roadways with high truck densities. Notwithstanding, the ARB notes that a site specific analysis would be required to determine the actual risk near a particular land use and should consider factors such as prevailing wind direction, local topography and climate.

Additionally, the California Code of Regulations, Title 14, Section 15126.2(a) recommends that significant environmental effects of a project be assessed when a project brings development and people into an affected area (1), although case law has held that CEQA requires an analysis of the project's impact on the environment, rather than the environment's impact on the project.. Nevertheless, for the proposed project, adjoining freeway emissions are a potential concern and relevant thresholds and standards exist to determine the impact of vehicular emissions on an exposed population. As such, a health risk assessment was prepared to assess the impact of these emissions on individuals residing at the proposed project site.

In consideration of the above referenced requirement, the assessment and dispersion modeling methodologies used in the preparation of this report were composed of all relevant and appropriate procedures presented by the U.S. Environmental Protection Agency, California Environmental Protection Agency and South Coast Air Quality Management District (SCAQMD). The methodologies and assumptions offered under this regulatory guidance were used to ensure that the assessment effectively quantified residential exposures associated with the generation of contaminant emissions from adjacent mobile source activity.

This report summarizes the protocol used to evaluate contaminant exposures and presents the results of the health risk assessment (HRA) prepared by Urban Crossroads, Inc., for the proposed TTM No. 36497 project (referred to as “Project). It should be noted that the Project actually places residences further than 500 feet from the freeway mainline, nevertheless this analysis is being provided for purposes of full disclosure.

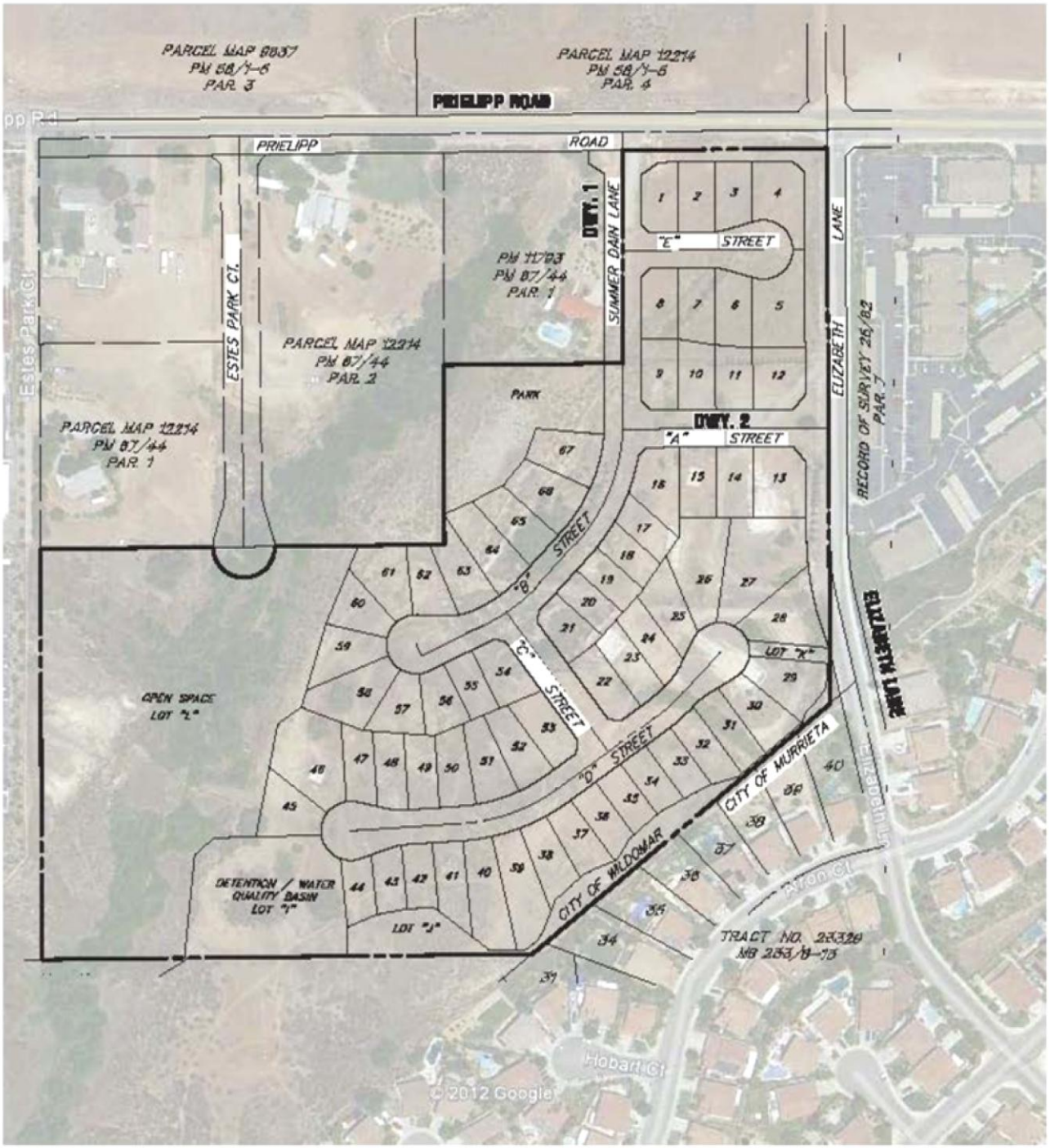
1.1 PROJECT LOCATION

The proposed Project is located at the southwest corner of Prielipp Road and Elizabeth Lane in the City of Wildomar.

1.2 PROJECT DESCRIPTION

The Project is proposed to consist of the development of up to 67 Single family lots as shown on Exhibit 1-A.

EXHIBIT 1-A: CONCEPTUAL SITE PLAN



Source: Parkside (TM 36497) Traffic Impact Analysis, Trames Solutions Inc, 2013

1.3 EXISTING LAND USES

The Project site is currently vacant, with residential and commercial land uses in its immediate vicinity.

1.4 SUMMARY OF FINDINGS

For carcinogenic exposures, the summation of risk for the maximum exposed residential receptor totaled 3.00E-06 (3 in one million) for the 30 year and 9.01E-07 (0.90 in one million) for the 9 year exposure scenarios. In comparison to the threshold level of ten in one million, carcinogenic risks will not exceed the applicable thresholds for both the 30 and 9 year exposure scenario. Therefore, carcinogenic exposures are calculated to be within acceptable limits and are less than significant.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both the 30 year and 9 year exposure scenarios. For acute exposures (i.e., 1 and 8-hour), the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 1.73 μg/m3 and 0.91 μg/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 μg/m3 and 1.0 μg/m3, respectively. For PM2.5, a maximum 24-hour average concentration of 0.74 μg/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5 μg/m3.

The maximum modeled 1-hour average concentration for CO of 0.04 parts per million (ppm) (44.51 μg/m3), when added to an existing background concentration of 2.7 ppm, would equal a total Project concentration of 2.74 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.03 ppm (37.36 μg/m3), when added to an existing background level of 0.70 ppm, would equal a total Project concentration of 0.73 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one hour concentration of 0.003 ppm (5.47 μg/m3) was predicted. This concentration, when added to a background concentration of 0.050 ppm, would equal a total Project concentration of 0.053 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who access and utilize outdoor amenities.

1.5 MITIGATION MEASURES

No significant impacts would occur, thus no mitigation is required.

2 SOURCE IDENTIFICATION

The California Department of Transportation (Caltrans), Traffic and Vehicle Data Systems Unit collects and maintains traffic volume counts for vehicles traversing the California state highway system. Discrete data sets are available for main highway segments and adjoining freeway ramp volumes. Table 2-1 presents the annual average daily traffic volumes (AADT) for the roadway segments considered in the assessment. Data for mainline AADTs on Route 15 for "back AADTs" was obtained from the Caltrans Traffic and Vehicle Data Systems Unit (4).

TABLE 2-1 FREEWAY TRAFFIC VOLUMES

Roadway Segment	Postmile	Annual Average Daily Traffic (AADT)
Route 15	13.635	122,000

3 SOURCE CHARACTERIZATION

In urban communities, vehicle emissions contribute significantly to localized concentrations of air contaminants. Typically, emissions generated from these sources are characterized by vehicle mix, the rate pollutants are generated during the course of travel and the number of vehicles traversing the roadway network.

Currently, emission factors are generated from a series of computer based programs to produce a composite emission rate for vehicles traveling at various speeds within a defined geographical area or along a discrete roadway segment. To account for the emission standards imposed on the California fleet, the ARB has developed the EMFAC2011 emission factor model. EMFAC2011 was utilized to identify pollutant emission rates for total organic gases (TOG), diesel particulates, particulates (PM10 and PM2.5), carbon monoxide (CO) and nitrogen oxide (NOx) compounds (5). To produce a representative vehicle fleet distribution, the assessment utilized ARB's Riverside's County population estimates for the 2035 calendar year. This approach provides an estimate of vehicle mix associated with operational profiles at the link or intersection level. Table 3-1 lists the identified fleet mix considered in the assessment.

Based upon the freeway traffic volumes and population profiles noted above, discrete traffic counts were identified for each roadway segment. Diesel vehicles account for 4.59 percent of the on-road mobile fleet. For chronic (long term) and acute (e.g., 1-hour) exposures, AADT values were averaged to produce representative hourly traffic volumes. Table 3-2 presents the hourly traffic volumes considered in the assessment.

TABLE 3-1: VEHICLE FLEET MIX PROFILE

Vehicle class	Riverside County		
	Fuel	Population	Percent
LDA	Diesel	3406	0.14
LDA	Gas	1066571	45.06
LDT1	Diesel	218	0.01
LDT1	Gas	168279	7.11
LDT2	Diesel	211	0.01
LDT2	Gas	420165	17.75
LHD1	Diesel	37466	1.58
LHD1	Gas	63985	2.70
LHD2	Diesel	11287	0.48
LHD2	Gas	5472	0.23
MCY	Gas	43045	1.82
MDV	Diesel	384	0.02
MDV	Gas	453630	19.17
MH	Diesel	7800	0.33
MH	Gas	31534	1.33
T6	Diesel	13217	0.56
T6	Gas	3297	0.14
T7	Diesel	32892	1.38
T7	Gas	402	0.02
OBUS	Diesel	525	0.02
OBUS	Gas	808	0.03
SBUS	Diesel	981	0.04
SBUS	Gas	515	0.02
UBUS	Diesel	504	0.02
UBUS	Gas	459	0.02

Note: Vehicle category descriptions can be found on the California Air Resources Board website at http://www.arb.ca.gov/msei/modeling.htm.

TABLE 3-2: HOURLY FREEWAY TRAFFIC VOLUMES

Roadway Segment	Average Traffic Volume		
	All	Gas	Diesel
Route 15	5,083.3	4,850.1	233.2

Posted route speeds were assumed for vehicles traversing the main highway link (Route 15). Emissions associated with acceleration and deceleration (i.e., on/off ramps) were based upon vehicle speeds of 45 and 5 miles per hour, respectively. These values were subsequently adjusted utilizing the modal algorithms presented in the California Line Source Dispersion Model (6).

For particulates (PM10 and PM2.5), emissions were quantified through the reentrainment of paved roadway dust. The predictive emission equation developed by the U.S. Environmental Protection Agency (AP-42, Section 13.2.1) was utilized to generate particulate source strength (7). To account for the mass rate of emissions entrained from the roadway surface, the contribution from exhaust, break and tire wear were added to the AP-42 emission factor equation.

A list of compounds associated with mobile source emissions is presented in Table 3-3. Appendix 3.1 presents the on-road emission rate calculation worksheets for the freeway segments considered in the assessment.

TABLE 3-3: COMPUNDS EMITTED FROM ON ROAD MOBILE SOURCE ACTIVITY

Source	Pollutant
State Route 15	Benzene Formaldehyde 1,3-Butadiene Acetaldehyde Acrolein Diesel Particulates Reentrained Particulates (PM10, PM2.5) Carbon Monoxide Nitrogen Dioxide

4 EXPOSURE QUANTIFICATION

In order to assess the impact of emitted compounds on individuals who reside at the proposed apartment complex, air quality modeling utilizing the AMS/EPA Regulatory Model AERMOD was performed to assess the downwind extent of mobile source emissions located within a ¼ mile radius of the project site. AERMOD's air dispersion algorithms are based upon a planetary boundary layer turbulence structure and scaling concepts, including the treatment of surface and elevated sources in simple and complex terrain.

The model offers additional flexibility by allowing the user to assign initial vertical and lateral dispersion parameters for sources representative of a localized mobile fleet. For this assessment, the volume source algorithm was utilized to model the emissions generated from on-road mobile source activity. Although the freeway is located predominantly below grade, the assessment followed guidance promulgated by the U.S. Environmental Protection Agency (U.S. EPA, 2009) whereby the model was programmed to assume flat, level terrain (8). This was done to avoid underestimating pollutant concentrations for conditions involving low-level, non-buoyant sources in up-sloping terrain. Notwithstanding, to account for the discrepancy in terrain elevation, vertical (sigma z) dispersion parameters were developed for each source location by approximating mixing zone residence time and quantifying the initial vertical term as performed in the California Line Source Dispersion Model Caline3 (6). The horizontal (sigma y) parameters were generated by dividing the source separation distance by a standard deviation of 2.15.

For PM10 and PM2.5, plume depletion due to dry removal mechanisms was assumed (i.e., DRYDPLT). Entrained or fugitive PM10 emissions were separated into three aerodynamic diameter sizes of 1.0, 2.5 and 10 microns (µm) with weight fractions of 0.0787, 0.1292, and 0.7922, respectively. Fugitive PM2.5 emissions were separated into two particle sizes of 1.0 and 2.5 µm with corresponding weight fractions of 0.3785 and 0.6215. Diesel particulate emissions were assigned particle size bins of 2.5 and 10 µm with corresponding weight fractions of 0.92 and 0.08. A particle density of 2.3 grams per cubic centimeter was assigned to all size bins.

Air dispersion models require additional input parameters including pollutant emission data and local meteorology. Due to the their sensitivity to individual meteorological parameters such as wind speed and direction, the U.S. Environmental Protection Agency recommends that meteorological data used as input into dispersion models be selected on the basis of relative spatial and temporal conditions that exist in the area of concern. In response to this recommendation, the nearest meteorological data available from the SCAQMD Lake Elsinore station (Source Receptor Area 25), which is located less than 8.50 miles northwest of the project site, was used to represent local weather conditions and prevailing winds. Five years (2008-2012) of available AERMOD meteorological data was utilized in the modeling.

The modeling analysis also considered the spatial distribution of mobile source activity traversing the freeway in relation to the proposed site. To accommodate a Cartesian grid format, direction dependent calculations were obtained by identifying the universal transverse mercator (UTM) coordinates for each volume source location. On-site receptors were placed to

provide coverage across the identified project boundary. A graphical representation of the source-receptor grid network is presented in Exhibit 4-A.

Air dispersion model input/output files are summarized in Appendix 3.3.

EXHIBIT 4-A: SOURCE RECEPTOR GRID NETWORK

5 RISK CHARACTERIZATION

5.1 CARCINOGENIC CHEMICAL RISK

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the State of California has established a threshold of one in one hundred thousand (or ten in one million) (1.0E-05) as a level posing no significant risk for exposures to carcinogens regulated under the Safe Drinking Water and Toxic Enforcement Act (Proposition 65). This threshold is also consistent with the maximum incremental cancer risk established by the SCAQMD for projects prepared under the auspices of the California Environmental Quality Act (CEQA). The SCAQMD *CEQA Air Quality Handbook* (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a health risk assessment shows an increased risk of greater than ten in one million(9).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter (μg/m3) over a 70 year lifetime. The URFs utilized in the assessment and corresponding cancer potency factor were obtained from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* (10).

To effectively quantify dose, the procedure requires the incorporation of several discrete exposure variates. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)-1 to derive the cancer risk estimate. Therefore, to assess exposures associated with the proposed residential population, the following dose algorithm was utilized.

$$CDI = (Cair \times EF \times ED \times IR) / (BW \times AT)$$

Where:

CDI = chronic daily intake (mg/kg/day)

Cair = concentration of contaminant in air (mg/m3)

EF = exposure frequency (days/year)

ED = exposure duration (years)

IR = inhalation rate (m3/day)

BW = body weight (kg)

AT = averaging time (days)

To represent residential exposures, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). Specifically, activity patterns for population mobility recommended by the U.S. Environmental Protection Agency and presented in the Exposure Factors Handbook were utilized. As a result, lifetime risk values for residents were adjusted to account for an exposure duration of 350 days per year for 30 years (i.e., 95th percentile). A 9 year exposure duration was additionally assessed to identify risk estimates associated with the average time individuals are reported to reside at a given residence. These values are consistent with the California Environmental Quality Act which considers the evaluation of environmental effects of proposed projects in a manner that reflects both reasonable and feasible assumptions. For body weight and inhalation, the assessment employed average adult values of 70 kilograms and 20 cubic meters per day, respectively.

Appendix 3.2, Tables A1 and A2, columns f-g, present the URF's and corresponding cancer potency factors for carcinogens considered in the assessment. The cancer risk attributed to each compound and summation of those risks are presented in column h.

For carcinogenic exposures, the summation of risk for the maximum exposed residential receptor totaled 3.00E-06 (3 in one million) for the 30 year and 9.01E-07 (0.90 in one million) for the 9 year exposure scenarios. In comparison to the threshold level of ten in one million, carcinogenic risks will not exceed the applicable thresholds for both the 30 and 9 year exposure scenario. Therefore, carcinogenic exposures are calculated to be within acceptable limits and are less than significant.

5.2 NON-CARCINOGENIC HAZARDS

An evaluation of the potential noncancer effects of contaminant exposures was also conducted. Under the point estimate approach, adverse health effects are evaluated by comparing the concentration of each compound with the appropriate Reference Exposure Level (REL). Available REL's presented in the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values were considered in the assessment.*

To quantify noncarcinogenic impacts, the hazard index approach was used. The hazard index assumes that subthreshold exposures adversely affect a specific organ or organ system (i.e., toxicological endpoint). For each discrete pollutant exposure, target organs presented in regulatory guidance were utilized.

To calculate the hazard index, the pollutant concentration or dose is divided by the appropriate toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds one (i.e., unity), a health hazard is presumed to exist. For chronic exposures, REL's were converted to units expressed in mg/kg/day to accommodate the above referenced intake algorithm. To assess acute noncancer impacts, the maximum pollutant concentration is divided by the REL for the corresponding averaging time (e.g., 1-hour). No exposure adjustments are considered for short duration exposures.

Appendix 3.2, Tables A1 and A2, columns i-j, present the REL's and corresponding reference dose values used in the evaluation of chronic noncarcinogenic exposures. The noncancer hazard quotient for identified compounds generated from each source and a summation for each toxicological endpoint are presented in columns k-r. Tables A3 through A4, column e present the REL's for the assessment of acute exposures. Columns f-m identify each compound's hazard quotient and corresponding index for each endpoint.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both the 30 year and 9 year exposure scenarios. For acute exposures (i.e., 1 and 8-hour), the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

5.3 CRITERIA POLLUTANT EXPOSURES

The State of California has promulgated strict ambient air quality standards for various pollutants. These standards were established to safeguard the public's health and welfare with specific emphasis on protecting those individuals susceptible to respiratory distress, such as asthmatics, the young, the elderly and those with existing conditions which may be affected by increased pollutant concentrations. However, recent research has shown that unhealthful respiratory responses occur with exposures to pollutants at levels that only marginally exceed clean air standards. Table 5-1 presents the CAAQS for the criteria pollutants considered in the assessment.

TABLE 5-1: CALIFORNIA AMBIENT AIR QUALITY STANDARDS

Pollutant	Standard	Health Effects
Particulates (PM10)	>50 μg/m3 (24 hr avg.) >20 μg/m3 (Annual)	1) Excess deaths from short-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory disease. 2) Excess seasonal declines in pulmonary function especially in children.
Particulates (PM2.5)	>12 μg/m3 (Annual)	1) Excess deaths and illness from long-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory and cardio pulmonary disease.
Carbon Monoxide (CO)	>9.0 ppm (8 hr avg.) >20.0 ppm (1 hr avg.)	1) Aggravation of angina pectoris and other aspects of coronary heart disease. 2) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease. 3) Impairment of central nervous system functions. 4) Possible increased risk to fetuses.
Nitrogen Dioxide (NO2)	>0.18 ppm (1 hr avg.)	1) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups. 2) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes.

Abbreviations: ppm: parts per million; μg/m3: micrograms per cubic meter.
Source: California Code of Regulations, Title 17, Section 70200.

Pollutant emissions are considered to have a significant effect on the environment if they result in concentrations that create either a violation of an ambient air quality standard, contribute to an existing air quality violation or expose sensitive receptors to substantive pollutant concentrations. Should ambient air quality already exceed existing standards, the SCAQMD has established significance criteria for selected compounds to account for the continued degradation of local air quality. Background concentrations are based upon the highest observed value for the most recent three year period.

For PM_{10} emissions, background concentrations representative of the project area exceed the CAAQS for the 24-hour and annual averaging times. As a result, a significant impact is achieved when pollutant concentrations produce a measurable change over existing background levels. Although background concentrations exceed the CAAQS annual averaging time for fine particulates, no measurable change criteria currently exists. As a result, the SCAQMD significance threshold of 2.5 $\mu g/m^3$ for the 24-hour averaging time is used to assess $PM_{2.5}$ impacts.

For the CO 1 and 8-hour averaging times and NO_2 1-hour averaging time, background concentrations are below the current air quality standards. As such, significance is achieved when pollutant concentrations add to existing levels and create an exceedance of the CAAQS. Table 5-2 shows the pollutant concentrations collected at the nearest available monitoring sites

to the Project for the last three years of available data. The nearest long-term air quality monitoring site in relation to the project for Carbon Monoxide (CO) and Nitrogen Dioxide (NO_2) is carried out by the South Coast Air Quality Management District (SCAQMD) at the Lake Elsinore monitoring station (SRA 25) located approximately 8.50 miles northwest of the project site. Data for Particulate Matter ≤ 10 Microns (PM_{10}) was obtained from the Perris monitoring station (SRA 24), located approximately 13.50 miles north of the project site. Data for Ultra-Fine Particulates ($PM_{2.5}$) was obtained from the Metropolitan Riverside County 2 monitoring station (SRA 23), located approximately 26.50 miles northwest of the project site. It should be noted that the Perris and Metropolitan Riverside County 2 monitoring stations were utilized in lieu of the Lake Elsinore monitoring station only where data was not available from the nearest monitoring site. Table 5-3 outlines the relevant significance thresholds considered to affect local air quality.

TABLE 5-2: LAKE ELSINORE MONITORING SUMMARY (SRA 25)

Pollutant/ Averaging Time	Year			
	2011	2012	2013	Maximum
Particulates (PM_{10}) 24-Hour	65	62	70	70
Particulates ($PM_{2.5}$) 24-Hour	51.6	30.2	33.4	51.6
Particulates (PM_{10}) Annual	41.3	39.9	39.9	39.9
Carbon Monoxide (CO) 1-Hour 8-Hour	1.7 0.7	2.7 0.7	0.7 0.4	2.7 0.7
Nitrogen Dioxide (NO_2) 1-Hour	0.050	0.048	0.038	0.050

Note: PM_{10} concentrations are expressed in micrograms per cubic meter ($\mu g/m^3$). All others are expressed in parts per million (ppm).
Source: U.S Environmental Protection Agency and California Air Resources Board.

TABLE 5-3: SCAQMD AIR QUALITY SIGNIFICANCE THRESHOLDS

Pollutant	Averaging Time	Pollutant Concentration
Particulates (PM10) Particulates (PM2.5)	24-Hours	2.5 μg/m3 (operation)
Particulates (PM10)	Annual	1.0 μg/m3
Carbon Monoxide (CO)	1/8-Hours	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standards 20 ppm (1-hour) and 9 ppm (8-hour).
Nitrogen Dioxide (NO2)	1-Hour	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standard 0.18 ppm.

Abbreviations: ppm: parts per million; μg/m3: micrograms per cubic meter
Source: South Coast Air Quality Management District.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 1.73 μg/m3 and 0.91 μg/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 μg/m3 and 1.0 μg/m3, respectively. For PM2.5, a maximum 24-hour average concentration of 0.74 μg/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5 μg/m3.

6 CONCLUSION

For carcinogenic exposures, the summation of risk for the maximum exposed residential receptor totaled 3.00E-06 (3 in one million) for the 30 year and 9.01E-07 (0.90 in one million) for the 9 year exposure scenarios. In comparison to the threshold level of ten in one million, carcinogenic risks will not exceed the applicable thresholds for both the 30 and 9 year exposure scenario. Therefore, carcinogenic exposures are calculated to be within acceptable limits and are less than significant.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both the 30 year and 9 year exposure scenarios. For acute exposures (i.e., 1 and 8-hour), the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 1.73 μg/m3 and 0.91 μg/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 μg/m3 and 1.0 μg/m3, respectively. For PM2.5, a maximum 24-hour average concentration of 0.74 μg/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5 μg/m3.

The maximum modeled 1-hour average concentration for CO of 0.04 parts per million (ppm) (44.51 μg/m3), when added to an existing background concentration of 2.7 ppm, would equal a total Project concentration of 2.74 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.03 ppm (37.36 μg/m3), when added to an existing background level of 0.70 ppm, would equal a total Project concentration of 0.73 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one hour concentration of 0.003 ppm (5.47 μg/m3) was predicted. This concentration, when added to a background concentration of 0.050 ppm, would equal a total Project concentration of 0.053 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who access and utilize outdoor amenities.

7 REFERENCES

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8 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed TTM No. 36497 Project. The information contained in this health risk assessment is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 660-1994 ext. 217.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May, 2010

Bachelor of Arts in Environmental Analysis and Design
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PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013
Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

APPENDIX 3.1:

EMISSION RATE CALCULATION WORKSHEETS

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: Criteria

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	CO_RUNEX (gms/mile)	CO_RUNEX AVE (gms/mile)	NOX_RUNEX (gms/mile)	NOx_RUNEX AVE (gms/mile)	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)	PM10_PMTW (gms/mile)	PM10_PMTW_AVE (gms/mile)	PM10_PMBW (gms/mile)	PM10_PMBW_AVE (gms/mile)	PM2_5_RUNEX (gms/mile)	PM2_5_RUNEX_AVE (gms/mile)	PM2_5_PMTW (gms/mile)	PM2_5_PMTW_AVE (gms/mile)	PM2_5_PMBW (gms/mile)	PM2_5_PMBW_AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	45	3405.500555	0.0014	0.061835391	0.00008897	0.223083266	0.00032099	0.003842236	0.00000553	0.007999958	0.00001151	0.036749815	0.000052879	0.003534857	0.000005086	0.00199999	0.000002878	0.01574992	0.000022663
Riverside	2035	Annual	LDA	GAS	Aggregated	45	1066570.102	0.4506	0.569292686	0.25655157	0.051319861	0.02312728	0.001519041	0.00068456	0.007999959	0.00360518	0.036749815	0.016561292	0.001409419	0.000635154	0.00199999	0.000901295	0.01574992	0.007097696
Riverside	2035	Annual	LDT1	DSL	Aggregated	45	217.8977772	0.0001	0.071249742	0.00000656	0.26142755	0.00002407	0.003729178	0.00000034	0.007999958	0.00000074	0.036749815	0.000003383	0.003430844	0.000000316	0.00199999	0.000000184	0.01574992	0.000001450
Riverside	2035	Annual	LDT1	GAS	Aggregated	45	168278.3097	0.0711	0.687702064	0.04889654	0.061329451	0.00436061	0.001522813	0.00010827	0.007999959	0.00056881	0.036749816	0.002612961	0.00141292	0.000100460	0.00199999	0.000142202	0.01574992	0.001119840
Riverside	2035	Annual	LDT2	DSL	Aggregated	45	210.8491684	0.0001	0.075378735	0.00000672	0.27582533	0.00002457	0.004029061	0.00000036	0.007999959	0.00000071	0.036749815	0.000003274	0.003706737	0.000000330	0.00199999	0.000000178	0.01574992	0.000001403
Riverside	2035	Annual	LDT2	GAS	Aggregated	45	420164.741	0.1775	0.66754281	0.11850820	0.063286425	0.01123517	0.00150948	0.00026798	0.007999959	0.00142022	0.036749816	0.006524157	0.001400548	0.000248638	0.00199999	0.000355056	0.01574992	0.002796067
Riverside	2035	Annual	LHD1	DSL	Aggregated	45	37465.98169	0.0158	0.41546939	0.00657697	0.881293925	0.01395107	0.013806685	0.00021856	0.011999938	0.00018996	0.0764396	0.001210055	0.01270215	0.000201078	0.002999985	0.000047490	0.032759827	0.000518595
Riverside	2035	Annual	LHD1	GAS	Aggregated	45	63984.43118	0.0270	0.124990396	0.00337910	0.128628221	0.00347744	0.000156368	0.00000423	0.007999959	0.00021628	0.036749815	0.000993526	0.000145083	0.000003922	0.00199999	0.000054069	0.01574992	0.000425797
Riverside	2035	Annual	LHD2	DSL	Aggregated	45	11286.00692	0.0048	0.39626362	0.00188962	0.81720264	0.00389690	0.013027541	0.00006212	0.011999938	0.00005722	0.089179533	0.000425261	0.011985338	0.000057153	0.002999985	0.000014306	0.038219795	0.000182255
Riverside	2035	Annual	LHD2	GAS	Aggregated	45	5471.261048	0.0023	0.099454256	0.00022991	0.103557774	0.00023940	0.000121209	0.00000028	0.007999959	0.00001849	0.036749816	0.000084956	0.000112462	0.000000260	0.00199999	0.000004623	0.01574992	0.000036410
Riverside	2035	Annual	MCY	GAS	Aggregated	45	43044.15608	0.0182	16.94104406	0.30810875	1.139352621	0.02072154	0.000188925	0.00000344	0.007999959	0.00014550	0.036749816	0.000668373	0.000163567	0.000002975	0.00199999	0.000036374	0.01574992	0.000286446
Riverside	2035	Annual	MDV	DSL	Aggregated	45	383.3439174	0.0002	0.060714397	0.00000983	0.219143504	0.00003549	0.003761157	0.00000061	0.007999958	0.00000130	0.036749814	0.000005952	0.003460265	0.000000560	0.00199999	0.000000324	0.01574992	0.000002551
Riverside	2035	Annual	MDV	GAS	Aggregated	45	453629.5908	0.1917	0.828092698	0.15871939	0.078808511	0.01510512	0.001474084	0.00028254	0.007999958	0.00153334	0.036749815	0.007043787	0.001367707	0.000262146	0.00199999	0.000383335	0.01574992	0.003018766
Riverside	2035	Annual	MH	DSL	Aggregated	45	7799.594186	0.0033	0.357325391	0.00117757	3.077373748	0.01014149	0.036326819	0.00011972	0.011999938	0.00003955	0.130339313	0.000429534	0.033420675	0.000110138	0.002999985	0.000009886	0.055859694	0.000184086
Riverside	2035	Annual	MH	GAS	Aggregated	45	31533.06207	0.0133	0.126590467	0.00168662	0.144042848	0.00191914	0.000111601	0.00000149	0.007999958	0.00010659	0.036749815	0.000489633	0.000103547	0.000001380	0.00199999	0.000026647	0.015749919	0.000209843
Riverside	2035	Annual	T6	DSL	Aggregated	45	13216.14372	0.0056	0.328627147	0.00183509	0.873108361	0.00487554	0.034788856	0.00019426	0.011999937	0.00006701	0.130339319	0.000727830	0.032005747	0.000178724	0.002999984	0.000016752	0.055859708	0.000311927
Riverside	2035	Annual	T6	GAS	Aggregated	45	3296.016731	0.0014	0.228386782	0.00031806	0.184313507	0.00025668	0.000121946	0.00000017	0.007999958	0.00001114	0.036749815	0.000051179	0.000113146	0.000000158	0.00199999	0.000002785	0.01574992	0.000021934
Riverside	2035	Annual	T7	DSL	Aggregated	45	32591.04424	0.0138	0.888926675	0.01224091	1.861540335	0.02563424	0.067496965	0.00092946	0.03562886	0.00049063	0.061103494	0.000841422	0.062097208	0.000855106	0.008907215	0.000122656	0.026187212	0.000360610
Riverside	2035	Annual	T7	GAS	Aggregated	45	401.0951987	0.0002	20.40251124	0.00345765	4.359954692	0.00073889	0.000108658	0.00000002	0.007999959	0.00000136	0.036749816	0.000006228	0.000100816	0.000000017	0.00199999	0.000000339	0.01574992	0.000002669
Riverside	2035	Annual	OBUS	DSL	Aggregated	45	524.9365285	0.0002	0.602340065	0.00013360	1.35182513	0.00029983	0.051477546	0.00001142	0.011999937	0.00000266	0.130339319	0.000028909	0.047359342	0.000010504	0.002999984	0.000000665	0.055859708	0.000012390
Riverside	2035	Annual	OBUS	GAS	Aggregated	45	807.1332126	0.0003	0.258305816	0.00008809	0.20471189	0.00006981	0.000123613	0.00000004	0.007999959	0.00000273	0.036749815	0.000012533	0.000114692	0.000000039	0.00199999	0.000000682	0.01574992	0.000005371
Riverside	2035	Annual	SBUS	DSL	Aggregated	45	980.5491445	0.0004	0.704076377	0.00029170	3.33423371	0.00138139	0.056166568	0.00002327	0.011999937	0.00000497	0.744796108	0.000308572	0.051673243	0.000021408	0.002999984	0.000001243	0.319198332	0.000132245
Riverside	2035	Annual	SBUS	GAS	Aggregated	45	514.7430431	0.0002	0.487099313	0.00010594	0.348616451	0.00007582	0.000169766	0.00000004	0.007999958	0.00000174	0.036749815	0.000007993	0.000157515	0.000000034	0.00199999	0.000000435	0.015749919	0.000003425
Riverside	2035	Annual	UBUS	DSL	Aggregated	45	503.9835124	0.0002	0.685207915	0.00014591	3.640761138	0.00077528	0.058272667	0.00001241	0.007999958	0.00000170	0.841815662	0.000179260	0.053610852	0.000011416	0.00199999	0.000000426	0.36077812	0.000076826
Riverside	2035	Annual	UBUS	GAS	Aggregated	45	458.3555694	0.0002	3.777714709	0.00073161	2.385247678	0.00046194	0.000301735	0.00000006	0.007999958	0.00000155	0.036749815	0.000007117	0.00027996	0.000000054	0.00199999	0.000000387	0.01574992	0.000003050
							2366738.8	1.0		0.925		0.143		0.003		0.009		0.039		0.003		0.002		0.017

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: TOG GAS

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	GAS	Aggregated	45	1066570.102	0.4723	0.01318972	0.0062
Riverside	2035	Annual	LDT1	GAS	Aggregated	45	168278.3097	0.0745	0.016138928	0.0012
Riverside	2035	Annual	LDT2	GAS	Aggregated	45	420164.741	0.1861	0.016137722	0.0030
Riverside	2035	Annual	LHD1	GAS	Aggregated	45	63984.43118	0.0283	0.008695321	0.0002
Riverside	2035	Annual	LHD2	GAS	Aggregated	45	5471.261048	0.0024	0.007299842	0.0000
Riverside	2035	Annual	MCY	GAS	Aggregated	45	43044.15608	0.0191	2.159232018	0.0412
Riverside	2035	Annual	MDV	GAS	Aggregated	45	453629.5908	0.2009	0.020252615	0.0041
Riverside	2035	Annual	MH	GAS	Aggregated	45	31533.06207	0.0140	0.011376726	0.0002
Riverside	2035	Annual	T6	GAS	Aggregated	45	3296.016731	0.0015	0.015260733	0.0000
Riverside	2035	Annual	T7	GAS	Aggregated	45	401.0951987	0.0002	0.335529194	0.0001
Riverside	2035	Annual	OBUS	GAS	Aggregated	45	807.1332126	0.0004	0.01709237	0.0000
Riverside	2035	Annual	SBUS	GAS	Aggregated	45	514.7430431	0.0002	0.029086367	0.0000
Riverside	2035	Annual	UBUS	GAS	Aggregated	45	458.3555694	0.0002	0.217729503	0.0000
							2258153.0	1.0		0.056

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: TOG DSL

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	45	3405.500555	0.0314	0.007198504	0.0002
Riverside	2035	Annual	LDT1	DSL	Aggregated	45	217.8977772	0.0020	0.008287934	0.0000
Riverside	2035	Annual	LDT2	DSL	Aggregated	45	210.8491684	0.0019	0.008841383	0.0000
Riverside	2035	Annual	LHD1	DSL	Aggregated	45	37465.98169	0.3450	0.058791698	0.0203
Riverside	2035	Annual	LHD2	DSL	Aggregated	45	11286.00692	0.1039	0.055072339	0.0057
Riverside	2035	Annual	MDV	DSL	Aggregated	45	383.3439174	0.0035	0.007044664	0.0000
Riverside	2035	Annual	MH	DSL	Aggregated	45	7799.594186	0.0718	0.085838269	0.0062
Riverside	2035	Annual	T6	DSL	Aggregated	45	13216.14372	0.1217	0.079083601	0.0096
Riverside	2035	Annual	T7	DSL	Aggregated	45	32591.04424	0.3001	0.191107402	0.0574
Riverside	2035	Annual	OBUS	DSL	Aggregated	45	524.9365285	0.0048	0.133747719	0.0006
Riverside	2035	Annual	SBUS	DSL	Aggregated	45	980.5491445	0.0090	0.169434633	0.0015
Riverside	2035	Annual	UBUS	DSL	Aggregated	45	503.9835124	0.0046	0.146507146	0.0007
							108585.8	1.0		0.102

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: DSL Particulate

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	45	3405.500555	0.0314	0.003842236	0.0001
Riverside	2035	Annual	LDT1	DSL	Aggregated	45	217.8977772	0.0020	0.003729178	0.0000
Riverside	2035	Annual	LDT2	DSL	Aggregated	45	210.8491684	0.0019	0.004029061	0.0000
Riverside	2035	Annual	LHD1	DSL	Aggregated	45	37465.98169	0.3450	0.013806685	0.0048
Riverside	2035	Annual	LHD2	DSL	Aggregated	45	11286.00692	0.1039	0.013027541	0.0014
Riverside	2035	Annual	MDV	DSL	Aggregated	45	383.3439174	0.0035	0.003761157	0.0000
Riverside	2035	Annual	MH	DSL	Aggregated	45	7799.594186	0.0718	0.036326819	0.0026
Riverside	2035	Annual	T6	DSL	Aggregated	45	13216.14372	0.1217	0.034788856	0.0042
Riverside	2035	Annual	T7	DSL	Aggregated	45	32591.04424	0.3001	0.067496965	0.0203
Riverside	2035	Annual	OBUS	DSL	Aggregated	45	524.9365285	0.0048	0.051477546	0.0002
Riverside	2035	Annual	SBUS	DSL	Aggregated	45	980.5491445	0.0090	0.056166568	0.0005
Riverside	2035	Annual	UBUS	DSL	Aggregated	45	503.9835124	0.0046	0.058272667	0.0003
							108585.8	1.0		0.034

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: Criteria

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	CO_RUNEX (gms/mile)	CO_RUNEX AVE (gms/mile)	NOX_RUNEX (gms/mile)	NOx_RUNEX AVE (gms/mile)	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)	PM10_PMTW (gms/mile)	PM10_PMTW_AVE (gms/mile)	PM10_PMBW (gms/mile)	PM10_PMBW_AVE (gms/mile)	PM2_5_RUNEX (gms/mile)	PM2_5_RUNEX_AVE (gms/mile)	PM2_5_PMTW (gms/mile)	PM2_5_PMTW_AVE (gms/mile)	PM2_5_PMBW (gms/mile)	PM2_5_PMBW_AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	65	3405.500555	0.0014	0.048810299	0.00007023	0.272994541	0.00039281	0.007275337	0.00001047	0.007999958	0.00001151	0.036749815	0.000052879	0.00669331	0.000009631	0.00199999	0.000002878	0.01574992	0.000022663
Riverside	2035	Annual	LDA	GAS	Aggregated	65	1066570.102	0.4506	0.414252745	0.18668287	0.05407668	0.02436964	0.00181773	0.00081916	0.007999959	0.00360518	0.036749815	0.016561292	0.001686554	0.000760045	0.00199999	0.000901295	0.01574992	0.007097696
Riverside	2035	Annual	LDT1	DSL	Aggregated	65	217.8977772	0.0001	0.055202157	0.00000508	0.315058374	0.00002901	0.00721686	0.00000066	0.007999958	0.00000074	0.036749815	0.000003383	0.006639511	0.000000611	0.00199999	0.000000184	0.01574992	0.000001450
Riverside	2035	Annual	LDT1	GAS	Aggregated	65	168278.3097	0.0711	0.503570463	0.03580454	0.065205587	0.00463620	0.001818548	0.00012930	0.007999959	0.00056881	0.036749816	0.002612961	0.001687312	0.000119970	0.00199999	0.000142202	0.01574992	0.001119840
Riverside	2035	Annual	LDT2	DSL	Aggregated	65	210.8491684	0.0001	0.060331962	0.00000537	0.341478285	0.00003042	0.007476505	0.00000067	0.007999959	0.00000071	0.036749815	0.000003274	0.006878385	0.000000613	0.00199999	0.000000178	0.01574992	0.000001403
Riverside	2035	Annual	LDT2	GAS	Aggregated	65	420164.741	0.1775	0.487048562	0.08646524	0.066972839	0.01188962	0.001805662	0.00032056	0.007999959	0.00142022	0.036749816	0.006524157	0.001675356	0.000297424	0.00199999	0.000355056	0.01574992	0.002796067
Riverside	2035	Annual	LHD1	DSL	Aggregated	65	37465.98169	0.0158	0.501071516	0.00793207	1.514757885	0.02397894	0.011987463	0.00018976	0.011999938	0.00018996	0.0764396	0.001210055	0.011028466	0.000174583	0.002999985	0.000047490	0.032759827	0.000518595
Riverside	2035	Annual	LHD1	GAS	Aggregated	65	63984.43118	0.0270	0.189175491	0.00511433	0.161538016	0.00436716	0.000127674	0.00000345	0.007999959	0.00021628	0.036749815	0.000993526	0.00011846	0.000003203	0.00199999	0.000054069	0.01574992	0.000425797
Riverside	2035	Annual	LHD2	DSL	Aggregated	65	11286.00692	0.0048	0.473151249	0.00225626	1.404934145	0.00669955	0.011208928	0.00005345	0.011999938	0.00005722	0.089179533	0.000425261	0.010312214	0.000049175	0.002999985	0.000014306	0.038219795	0.000182255
Riverside	2035	Annual	LHD2	GAS	Aggregated	65	5471.261048	0.0023	0.145069116	0.00033536	0.12620273	0.00029175	9.93315E-05	0.00000023	0.007999959	0.00001849	0.036749816	0.000084956	9.21633E-05	0.000000213	0.00199999	0.000004623	0.01574992	0.000036410
Riverside	2035	Annual	MCY	GAS	Aggregated	65	43044.15608	0.0182	40.96972938	0.74512126	1.373290581	0.02497620	0.00037198	0.00000677	0.007999959	0.00014550	0.036749816	0.000668373	0.00032175	0.000005852	0.00199999	0.000036374	0.01574992	0.000286446
Riverside	2035	Annual	MDV	DSL	Aggregated	65	383.3439174	0.0002	0.047503659	0.00000769	0.266308423	0.00004313	0.007214937	0.00000117	0.007999958	0.00000130	0.036749814	0.000005952	0.000637743	0.000001075	0.00199999	0.000000324	0.01574992	0.000002551
Riverside	2035	Annual	MDV	GAS	Aggregated	65	453629.5908	0.1917	0.605701938	0.11609406	0.084551194	0.01620581	0.001761399	0.00033760	0.007999958	0.00153334	0.036749815	0.007043787	0.001634287	0.000313242	0.00199999	0.000383335	0.01574992	0.003018766
Riverside	2035	Annual	MH	DSL	Aggregated	65	7799.594186	0.0033	0.443390103	0.00146119	3.048432861	0.01004612	0.063531641	0.00020937	0.011999938	0.00003955	0.130339313	0.000429534	0.058449111	0.000192619	0.002999985	0.000009886	0.055859694	0.000184086
Riverside	2035	Annual	MH	GAS	Aggregated	65	31533.06207	0.0133	0.183441767	0.00244407	0.173542297	0.00231218	9.1555E-05	0.00000122	0.007999958	0.00010659	0.036749815	0.000489633	8.4948E-05	0.000001132	0.00199999	0.000026647	0.015749919	0.000209843
Riverside	2035	Annual	T6	DSL	Aggregated	65	13216.14372	0.0056	0.408412557	0.00228062	0.854539512	0.00477185	0.059789449	0.00033387	0.011999937	0.00006701	0.130339319	0.000727830	0.055006293	0.000307162	0.002999984	0.000016752	0.055859708	0.000311927
Riverside	2035	Annual	T6	GAS	Aggregated	65	3296.016731	0.0014	0.348357377	0.00048514	0.226248775	0.00031508	0.00010016	0.00000014	0.007999958	0.00001114	0.036749815	0.000051179	9.29323E-05	0.000000129	0.00199999	0.000002785	0.01574992	0.000021934
Riverside	2035	Annual	T7	DSL	Aggregated	65	32591.04424	0.0138	1.101165814	0.01516354	1.819153152	0.02505055	0.115470406	0.00159008	0.03562886	0.00049063	0.061103494	0.000841422	0.106232774	0.001462872	0.008907215	0.000122656	0.026187212	0.000360610
Riverside	2035	Annual	T7	GAS	Aggregated	65	401.0951987	0.0002	32.5418375	0.00551492	5.626849909	0.00095359	8.90388E-05	0.00000002	0.007999959	0.00000136	0.036749816	0.000006228	8.26133E-05	0.000000014	0.00199999	0.000000339	0.01574992	0.000002669
Riverside	2035	Annual	OBUS	DSL	Aggregated	65	524.9365285	0.0002	0.7468896	0.00016566	1.317947947	0.00029232	0.088202177	0.00001956	0.011999937	0.00000266	0.130339319	0.000028909	0.081146002	0.000017998	0.002999984	0.000000665	0.055859708	0.000012390
Riverside	2035	Annual	OBUS	GAS	Aggregated	65	807.1332126	0.0003	0.356286549	0.00012151	0.236555591	0.00008067	9.82834E-05	0.00000003	0.007999959	0.00000273	0.036749815	0.000012533	9.11908E-05	0.000000031	0.00199999	0.000000682	0.01574992	0.000005371
Riverside	2035	Annual	SBUS	DSL	Aggregated	65	980.5491445	0.0004	0.810803394	0.00033592	3.157915928	0.00130834	0.083400236	0.00003455	0.011999937	0.00000497	0.744796108	0.000308572	0.076728217	0.000031789	0.002999984	0.000001243	0.319198332	0.000132245
Riverside	2035	Annual	SBUS	GAS	Aggregated	65	514.7430431	0.0002	1.254577241	0.00027286	0.77443926	0.00016843	0.000253209	0.00000006	0.007999958	0.00000174	0.036749815	0.000007993	0.000234936	0.000000051	0.00199999	0.000000435	0.015749919	0.000003425
Riverside	2035	Annual	UBUS	DSL	Aggregated	65	503.9835124	0.0002	0.887992698	0.00018909	9.688391801	0.00206309	0.080189624	0.00001708	0.007999958	0.00000170	0.841815662	0.000179260	0.073774456	0.000015710	0.00199999	0.000000426	0.36077812	0.000076826
Riverside	2035	Annual	UBUS	GAS	Aggregated	65	458.3555694	0.0002	4.057544278	0.00078581	2.561347202	0.00049604	0.000215777	0.00000004	0.007999958	0.00000155	0.036749815	0.000007117	0.000200206	0.000000039	0.00199999	0.000000387	0.01574992	0.000003050
							2366738.8	1.0		1.215		0.166		0.004		0.009		0.039		0.004		0.002		0.017

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: TOG GAS

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	GAS	Aggregated	65	1066570.102	0.4723	0.015202523	0.0072
Riverside	2035	Annual	LDT1	GAS	Aggregated	65	168278.3097	0.0745	0.018438323	0.0014
Riverside	2035	Annual	LDT2	GAS	Aggregated	65	420164.741	0.1861	0.018595067	0.0035
Riverside	2035	Annual	LHD1	GAS	Aggregated	65	63984.43118	0.0283	0.007422387	0.0002
Riverside	2035	Annual	LHD2	GAS	Aggregated	65	5471.261048	0.0024	0.006013043	0.0000
Riverside	2035	Annual	MCY	GAS	Aggregated	65	43044.15608	0.0191	4.298255262	0.0819
Riverside	2035	Annual	MDV	GAS	Aggregated	65	453629.5908	0.2009	0.023227902	0.0047
Riverside	2035	Annual	MH	GAS	Aggregated	65	31533.06207	0.0140	0.009452198	0.0001
Riverside	2035	Annual	T6	GAS	Aggregated	65	3296.016731	0.0015	0.013141619	0.0000
Riverside	2035	Annual	T7	GAS	Aggregated	65	401.0951987	0.0002	0.31726125	0.0001
Riverside	2035	Annual	OBUS	GAS	Aggregated	65	807.1332126	0.0004	0.013636358	0.0000
Riverside	2035	Annual	SBUS	GAS	Aggregated	65	514.7430431	0.0002	0.047433947	0.0000
Riverside	2035	Annual	UBUS	GAS	Aggregated	65	458.3555694	0.0002	0.15812822	0.0000
							2258153.0	1.0		0.099

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: TOG DSL

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	65	3405.500555	0.0314	0.013627141	0.0004
Riverside	2035	Annual	LDT1	DSL	Aggregated	65	217.8977772	0.0020	0.016029424	0.0000
Riverside	2035	Annual	LDT2	DSL	Aggregated	65	210.8491684	0.0019	0.016521913	0.0000
Riverside	2035	Annual	LHD1	DSL	Aggregated	65	37465.98169	0.3450	0.050440916	0.0174
Riverside	2035	Annual	LHD2	DSL	Aggregated	65	11286.00692	0.1039	0.046981386	0.0049
Riverside	2035	Annual	MDV	DSL	Aggregated	65	383.3439174	0.0035	0.013508427	0.0000
Riverside	2035	Annual	MH	DSL	Aggregated	65	7799.594186	0.0718	0.069679939	0.0050
Riverside	2035	Annual	T6	DSL	Aggregated	65	13216.14372	0.1217	0.059353799	0.0072
Riverside	2035	Annual	T7	DSL	Aggregated	65	32591.04424	0.3001	0.144072356	0.0432
Riverside	2035	Annual	OBUS	DSL	Aggregated	65	524.9365285	0.0048	0.100133543	0.0005
Riverside	2035	Annual	SBUS	DSL	Aggregated	65	980.5491445	0.0090	0.130336428	0.0012
Riverside	2035	Annual	UBUS	DSL	Aggregated	65	503.9835124	0.0046	0.208383651	0.0010
							108585.8	1.0		0.081

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: DSL Particulate

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	65	3405.500555	0.0314	0.007275337	0.0002
Riverside	2035	Annual	LDT1	DSL	Aggregated	65	217.8977772	0.0020	0.00721686	0.0000
Riverside	2035	Annual	LDT2	DSL	Aggregated	65	210.8491684	0.0019	0.007476505	0.0000
Riverside	2035	Annual	LHD1	DSL	Aggregated	65	37465.98169	0.3450	0.011987463	0.0041
Riverside	2035	Annual	LHD2	DSL	Aggregated	65	11286.00692	0.1039	0.011208928	0.0012
Riverside	2035	Annual	MDV	DSL	Aggregated	65	383.3439174	0.0035	0.007214937	0.0000
Riverside	2035	Annual	MH	DSL	Aggregated	65	7799.594186	0.0718	0.063531641	0.0046
Riverside	2035	Annual	T6	DSL	Aggregated	65	13216.14372	0.1217	0.059789449	0.0073
Riverside	2035	Annual	T7	DSL	Aggregated	65	32591.04424	0.3001	0.115470406	0.0347
Riverside	2035	Annual	OBUS	DSL	Aggregated	65	524.9365285	0.0048	0.088202177	0.0004
Riverside	2035	Annual	SBUS	DSL	Aggregated	65	980.5491445	0.0090	0.083400236	0.0008
Riverside	2035	Annual	UBUS	DSL	Aggregated	65	503.9835124	0.0046	0.080189624	0.0004
							108585.8	1.0		0.054

Emission Factor Rate Adjustment Worksheet

CO Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.925
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	2.200

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	1.791
Emfac (gr/mi)	2.687

NOX Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.143
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.340

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.315
Emfac (gr/mi)	0.473

Emission Factor Rate Adjustment Worksheet

PM10 Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.003
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.007

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.015
Emfac (gr/mi)	0.023

PM2.5 Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.003
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.007

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.014
Emfac (gr/mi)	0.021

Emission Factor Rate Adjustment Worksheet

TOG GAS Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.056
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.133

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.236
Emfac (gr/mi)	0.354

TOG DSL Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.102
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.243

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	1.216
Emfac (gr/mi)	1.824

Emission Factor Rate Adjustment Worksheet

DSL Particulate Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.034
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.081

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.057
Emfac (gr/mi)	0.086

Source: California Department of Transportation, 1989. Division of New Technology and Research. Caline4 – A Dispersion Model for Predicting Air Pollution Concentrations Near Roadways (Revised). FHWA/CA/TL-84/15.

Emission Factor Profile Worksheet
Chronic Exposure

TOG -Toxic Emissions

Gasoline/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.028414	0.021422	0.006603	0.005511	0.001533
2005	0.028205	0.021200	0.006551	0.005450	0.001520
2006	0.027938	0.021000	0.006483	0.005350	0.001510
2007	0.027660	0.020700	0.006410	0.005250	0.001490
2008	0.027338	0.020300	0.006326	0.005120	0.001470
2009	0.026849	0.019800	0.006190	0.004870	0.001450
2010	0.026521	0.019400	0.006105	0.004750	0.001430
2011	0.026521	0.019400	0.006105	0.004750	0.001430
2012	0.025656	0.018500	0.005873	0.004370	0.001380
2013	0.025656	0.018500	0.005873	0.004370	0.001380
2014	0.025656	0.018500	0.005873	0.004370	0.001380
2015	0.024349	0.017100	0.005530	0.003850	0.001310
2016	0.024349	0.017100	0.005530	0.003850	0.001310
2017	0.024349	0.017100	0.005530	0.003850	0.001310
2018	0.022182	0.014700	0.004944	0.002860	0.001190
2019	0.022182	0.014700	0.004944	0.002860	0.001130
2020	0.021079	0.013600	0.004659	0.002450	0.001130
2021	0.021079	0.013600	0.004659	0.002450	0.001130
2022	0.021079	0.013600	0.004659	0.002450	0.001130
2023	0.021079	0.013600	0.004659	0.002450	0.001130
2024	0.021079	0.013600	0.004659	0.002450	0.001130
2025	0.021079	0.013600	0.004659	0.002450	0.001130
2026	0.021079	0.013600	0.004659	0.002450	0.001130
2027	0.021079	0.013600	0.004659	0.002450	0.001130
2028	0.021079	0.013600	0.004659	0.002450	0.001130
2029	0.021079	0.013600	0.004659	0.002450	0.001130
2030	0.021079	0.013600	0.004659	0.002450	0.001130

Analysis Year

2030	0.021079	0.013600	0.004659	0.002450	0.001130

TOG Emisson Rate - gr/mi

Speed (MPH)	Acceleration	0.133
	Deceleration	0.354
	65	0.099

Toxic Emission Rate - gr/mi	Acceleration	0.005708
Speed (MPH)	Deceleration	0.015193
	65	0.004249

Weight Fraction / Speciation

Benzene	0.491
Formaldehyde	0.317
1,3-Butadiene	0.109
Acetaldehyde	0.057
Acrolein	0.026

Diesel Particulate Emissions - PM10

Emission Factor Profile Worksheet
Chronic Exposure

PM10 Emission Rate - gr/mi	Acceleration	0.081
Speed (MPH)	Deceleration	0.086
	65	0.054

Source: TOG/toxic fractions from UC Davis-Caltrans Air Quality Project, *Estimating Mobile Source Air Toxic Emissions: A Step-by-Step Project Analysis Methodology*. Task Order No. 61.

Emission Factor Profile Worksheet
Acute Exposure

TOG -Toxic Emissions

Gasoline/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.028414	0.021422	0.006603	0.005511	0.001533
2005	0.028205	0.021200	0.006551	0.005450	0.001520
2006	0.027938	0.021000	0.006483	0.005350	0.001510
2007	0.027660	0.020700	0.006410	0.005250	0.001490
2008	0.027338	0.020300	0.006326	0.005120	0.001470
2009	0.026849	0.019800	0.006190	0.004870	0.001450
2010	0.026521	0.019400	0.006105	0.004750	0.001430
2011	0.026521	0.019400	0.006105	0.004750	0.001430
2012	0.025656	0.018500	0.005873	0.004370	0.001380
2013	0.025656	0.018500	0.005873	0.004370	0.001380
2014	0.025656	0.018500	0.005873	0.004370	0.001380
2015	0.024349	0.017100	0.005530	0.003850	0.001310
2016	0.024349	0.017100	0.005530	0.003850	0.001310
2017	0.024349	0.017100	0.005530	0.003850	0.001310
2018	0.022182	0.014700	0.004944	0.002860	0.001190
2019	0.022182	0.014700	0.004944	0.002860	0.001130
2020	0.021079	0.013600	0.004659	0.002450	0.001130
2021	0.021079	0.013600	0.004659	0.002450	0.001130
2022	0.021079	0.013600	0.004659	0.002450	0.001130
2023	0.021079	0.013600	0.004659	0.002450	0.001130
2024	0.021079	0.013600	0.004659	0.002450	0.001130
2025	0.021079	0.013600	0.004659	0.002450	0.001130
2026	0.021079	0.013600	0.004659	0.002450	0.001130
2027	0.021079	0.013600	0.004659	0.002450	0.001130
2028	0.021079	0.013600	0.004659	0.002450	0.001130
2029	0.021079	0.013600	0.004659	0.002450	0.001130
2030	0.021079	0.013600	0.004659	0.002450	0.001130

Analysis Year

2030	0.021079	0.013600	0.004659	0.002450	0.001130

TOG Emisson Rate - gr/mi

Speed (MPH)	Acceleration	0.133
	Deceleration	0.354
	65	0.099

Toxic Emission Rate - gr/mi	Acceleration	0.005708
Speed (MPH)	Deceleration	0.015193
	65	0.004249

Weight Fraction / Speciation

Benzene	0.491
Formaldehyde	0.317
1,3-Butadiene	0.109
Acetaldehyde	0.057
Acrolein	0.026

Emission Factor Profile Worksheet
Acute Exposure

TOG -Toxic Emissions

Diesel/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.020009	0.147133	0.001900	0.073526	0
2005	0.020009	0.147133	0.001900	0.073526	0
2006	0.020009	0.147133	0.001900	0.073526	0
2007	0.020009	0.147133	0.001900	0.073526	0
2008	0.020009	0.147133	0.001900	0.073526	0
2009	0.020009	0.147133	0.001900	0.073526	0
2010	0.020009	0.147133	0.001900	0.073526	0
2011	0.020009	0.147133	0.001900	0.073526	0
2012	0.020009	0.147133	0.001900	0.073526	0
2013	0.020009	0.147133	0.001900	0.073526	0
2014	0.020009	0.147133	0.001900	0.073526	0
2015	0.020009	0.147133	0.001900	0.073526	0
2016	0.020009	0.147133	0.001900	0.073526	0
2017	0.020009	0.147133	0.001900	0.073526	0
2018	0.020009	0.147133	0.001900	0.073526	0
2019	0.020009	0.147133	0.001900	0.073526	0
2020	0.020009	0.147133	0.001900	0.073526	0
2021	0.020009	0.147133	0.001900	0.073526	0
2022	0.020009	0.147133	0.001900	0.073526	0
2023	0.020009	0.147133	0.001900	0.073526	0
2024	0.020009	0.147133	0.001900	0.073526	0
2025	0.020009	0.147133	0.001900	0.073526	0
2026	0.020009	0.147133	0.001900	0.073526	0
2027	0.020009	0.147133	0.001900	0.073526	0
2028	0.020009	0.147133	0.001900	0.073526	0
2029	0.020009	0.147133	0.001900	0.073526	0
2030	0.020009	0.147133	0.001900	0.073526	0

Analysis Year

2030	0.020009	0.147133	0.001900	0.073526	0

TOG Emisson Rate - gr/mi

Speed (MPH)	Acceleration	0.243
	Deceleration	1.824
	65	0.081

Toxic Emission Rate - gr/mi	Acceleration	0.058944
Speed (MPH)	Deceleration	0.442444
	65	0.019648

Weight Fraction / Speciation

Benzene	0.082
Formaldehyde	0.607
1,3-Butadiene	0.008
Acetaldehyde	0.303
Acrolein	0.000

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

CO Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Pollutant Mass Emission Rate (gr/mi)	1.215

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.52131
Pollutant Emission Rate (gr/sec/source)	1.00E-02

SB Route 15

CO Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Pollutant Mass Emission Rate (gr/mi)	1.215

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.52131
Pollutant Emission Rate (gr/sec/source)	1.00E-02

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

NOx Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Pollutant Mass Emission Rate (gr/mi)	0.166

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.07122
Pollutant Emission Rate (gr/sec/source)	1.37E-03

SB Route 15

NOx Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Pollutant Mass Emission Rate (gr/mi)	0.166

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.07122
Pollutant Emission Rate (gr/sec/source)	1.37E-03

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

PM10 Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Particle Size Multiplier (g/mi)	1.0
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.7
Emfac2011 Emissions Run (g/mi)	0.004
Emfac2011 Emissions TW/BW (g/mi)	0.048
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.130

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$) + (Emfac2011 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.055919
PM10 Reentrainment Emission Rate (gr/sec/source)	1.08E-03

SB Route 15

PM10 Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Particle Size Multiplier (g/mi)	1.0
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.7
Emfac2011 Emissions Run (g/mi)	0.004
Emfac2011 Emissions TW/BW (g/mi)	0.048
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.130

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$) + (Emfac2011 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.055919
PM10 Reentrainment Emission Rate (gr/sec/source)	1.08E-03

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

PM2.5 Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Particle Size Multiplier (g/mi)	0.25
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.7
Emfac2011 Emissions Run (g/mi)	0.004
Emfac2011 Emissions TW/BW (g/mi)	0.019
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.043

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$) + (Emfac2011 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.018270
PM10 Reentrainment Emission Rate (gr/sec/source)	3.51E-04

SB Route 15

PM2.5 Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Particle Size Multiplier (g/mi)	0.25
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.7
Emfac2011 Emissions Run (g/mi)	0.004
Emfac2011 Emissions TW/BW (g/mi)	0.019
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.043

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$) + (Emfac2011 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.018270
PM10 Reentrainment Emission Rate (gr/sec/source)	3.51E-04

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

TOG GAS Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2425.1
Pollutant Mass Emission Rate (gr/mi)	0.004249

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00174
Pollutant Emission Rate (gr/sec/source)	3.35E-05

SB Route 15

TOG GAS Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2425.1
Pollutant Mass Emission Rate (gr/mi)	0.004249

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00174
Pollutant Emission Rate (gr/sec/source)	3.35E-05

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

TOG DSL Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	116.6
Pollutant Mass Emission Rate (gr/mi)	0.019648

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00039
Pollutant Emission Rate (gr/sec/source)	7.44E-06

SB Route 15

TOG DSL Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	116.6
Pollutant Mass Emission Rate (gr/mi)	0.019648

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00039
Pollutant Emission Rate (gr/sec/source)	7.44E-06

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

DSL Particulate Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	116.6
Pollutant Mass Emission Rate (gr/mi)	0.054

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00106
Pollutant Emission Rate (gr/sec/source)	2.04E-05

SB Route 15

DSL Particulate Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	116.6
Pollutant Mass Emission Rate (gr/mi)	0.054

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00106
Pollutant Emission Rate (gr/sec/source)	2.04E-05

Riverside County Vehicle Population

All	2366738.8
DSL	108585.8

Chronic Diesel Fleet Mix (weight fraction) 0.0459

Link Counts	Sources	AADT	VPH all	VPH gas	VPH diesel
NB Route 15		61000	2541.7	2425.1	116.6
SB Route 15		61000	2541.7	2425.1	116.6

Initial Sigma Computation

Roadway Link / At Grade

Width of Traveled Way (m)	12.000
Average Wind Speed (m/s)	2.03
Source Separation Distance (m)	12.000

Initial Vertical Dispersion Parameter (Sigma Z)

$SZ = (1.8 + 0.11(TR)) \times (60/30)^{0.2}$

$TR = W2/U$

Where:

W2 = traveled way half width (m)

U = average wind speed (m/s)

SZ = 2.44

Initial Horizontal Dispersion Parameter (Sigma Y)

SY = (source separation distance)/2.15

SY = 5.58

Roadway Link / Depressed Section

Width of Traveled Way (m)	0.00
Average Wind Speed (m/s)	0.00
Depth of Cut (m)	0.00
Source Separation Distance (m)	0.00

Initial Vertical Dispersion Parameter (Sigma Z)

$SZ = (1.8 + 0.11(TR)) \times (60/30)^{0.2}$

$TR = DSTR \times W2/U$

$DSTR = 0.72 \times (\text{Depth of Cut})^{0.83}$

Where:

W2 = traveled way half width (m)

U = average wind speed (m/s)

SZ = #DIV/0!

Initial Horizontal Dispersion Parameter (Sigma Y)

SY = (source separation distance)/2.15

SY = 0.00

Note: 'source separation distance' cannot be less than 'width of traveled way' and must be multiples (e.g., 2x, 3x etc.) of 'width of traveled way' for approximate representation.

APPENDIX 3.2:

RISK CALCULATION WORKSHEETS

Table A2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
Residential Exposure Scenario (9 Year)

Source	Concentration		Weight Fraction	Contaminant	Carcinogenic Risk			Noncarcinogenic Hazards / Toxicological Endpoints*									
					URF	CPF	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m3)	(mg/m3)			(ug/m3)	(mg/kg/day)		(ug/m3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
Freeway	0.03475	3.5E-05	4.60E-01	Benzene	2.9E-05	1.0E-01	5.7E-08	6.0E+01	1.7E-02		2.6E-04	2.6E-04				2.6E-04	
			3.32E-01	Formaldehyde	6.0E-06	2.1E-02	8.5E-09	9.0E+00	2.6E-03	1.2E-03							
			1.05E-01	1,3-Butadiene	1.7E-04	6.0E-01	7.6E-08	2.0E+01	5.7E-03							1.7E-04	
			7.80E-02	Acetaldehyde	2.7E-06	1.0E-02	9.5E-10	1.4E+02	4.0E-02	1.9E-05							
			2.50E-02	Acrolein				3.5E-01	1.0E-04	2.4E-03							
	0.02049	2.0E-05	1.00E+00	Diesel Particulates	3.0E-04	1.1E+00	7.6E-07	5.0E+00	1.4E-03	3.9E-03							
Total							9.01E-07			7.6E-03	2.6E-04	2.6E-04	0.0E+00	0.0E+00	0.0E+00	4.3E-04	0.0E+00

* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	9
inhalation rate (m3/day)	20
average body weight (kg)	70
averaging time$_{(cancer)}$ (days)	25550
averaging time$_{(noncancer)}$ (days)	3285

Table A3
Quantification of Noncarcinogenic Acute Hazards
1-Hour Exposure / Average Traffic Scenario

Source	Concentration (ug/m3)	Weight Fraction	Contaminant	Noncarcinogenic Hazards / Toxicological Endpoints*								
				REL (ug/m3)	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Freeway	0.14857	4.60E-01	Benzene	1.3E+03			5.3E-05	5.3E-05			5.3E-05	
TOG		3.32E-01	Formaldehyde	5.5E+01								9.0E-04
		7.80E-02	Acetaldehyde	4.7E+02	2.5E-05							2.5E-05
		2.50E-02	Acrolein	2.5E+00	1.5E-03							1.5E-03
Freeway	0.03330	8.20E-02	Benzene	1.3E+03			2.1E-06	2.1E-06			2.1E-06	
Diesel/TOG		6.07E-01	Formaldehyde	5.5E+01								3.7E-04
		3.03E-01	Acetaldehyde	4.7E+02	2.1E-05							2.1E-05
Total					1.5E-03	0.0E+00	5.5E-05	5.5E-05	0.0E+00	0.0E+00	5.5E-05	2.8E-03

* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Table A4
Quantification of Noncarcinogenic Acute Hazards
8-Hour Exposure / Average Traffic Scenario

Source	Concentration (ug/m3)	Weight Fraction	Contaminant	Noncarcinogenic Hazards / Toxicological Endpoints*								
				REL (ug/m3)	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Freeway	0.12471	3.32E-01	Formaldehyde	9.0E+00	4.6E-03							
TOG		7.80E-02	Acetaldehyde	3.0E+02	3.2E-05							
		2.50E-02	Acrolein	7.0E-01	4.5E-03							
Freeway	0.02795	6.07E-01	Formaldehyde	9.0E+00	1.9E-03							
Diesel/TOG		3.03E-01	Acetaldehyde	3.0E+02	2.8E-05							
Total					1.1E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

How to use:
Column A requests a value. Enter that value in column B.
Be sure to enter all four requested values.
The result appears in cell B20.

CONVERSION OF MICROGRAMS PER CUBIC METER TO PPM

MICROGRAMS PER CUBIC METER CONCENTRATION	5.47499
MOLECULAR WEIGHT	46.0055
TEMPERATURE IN DEG CELSIUS	25
ATMOSPHERIC PRESSURE IN mmHg (use 760 if unsure)	760
CONCENTRATION IN PPM	0.002911513

How to use:
Column A requests a value. Enter that value in column B.
Be sure to enter all four requested values.
The result appears in cell B20.

CONVERSION OF MICROGRAMS PER CUBIC METER TO PPM

MICROGRAMS PER CUBIC METER CONCENTRATION	44.51304
MOLECULAR WEIGHT	28.01
TEMPERATURE IN DEG CELSIUS	25
ATMOSPHERIC PRESSURE IN mmHg (use 760 if unsure)	760
CONCENTRATION IN PPM	0.038879384

How to use:
Column A requests a value. Enter that value in column B.
Be sure to enter all four requested values.
The result appears in cell B20.

CONVERSION OF MICROGRAMS PER CUBIC METER TO PPM

MICROGRAMS PER CUBIC METER CONCENTRATION	37.36466
MOLECULAR WEIGHT	28.01
TEMPERATURE IN DEG CELSIUS	25
ATMOSPHERIC PRESSURE IN mmHg (use 760 if unsure)	760
CONCENTRATION IN PPM	0.032635717

APPENDIX 3.3:

AERMOD MODEL OUTPUT SUMMARY FILE

AERMOD MODEL OUTPUT SUMMARY FILE (CO)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_CO\9239_CO.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC FLAT  FASTALL
   AVERTIME 1 8
   URBANOPT 2100516
   POLLUTID CO
   RUNORNOT RUN
   ERRORFIL 9239_CO.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.52131
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
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   LOCATION L0000949     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000950     VOLUME   478135.765 3716327.756 0.0
   LOCATION L0000951     VOLUME   478149.591 3716315.017 0.0
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   LOCATION L0000954     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000955     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000956     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000957     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000958     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000959     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000960     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000961     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000962     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000963     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000964     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000965     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000966     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000967     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000968     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000969     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000970     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000971     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000972     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000973     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000974     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000975     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000976     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000977     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000978     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000979     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000980     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000981     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000982     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000983     VOLUME   478592.022 3715907.369 0.0
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   LOCATION L0000986     VOLUME   478633.500 3715869.152 0.0
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   LOCATION L0000988     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000989     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000990     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000991     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000992     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000993     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000994     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000995     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000996     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000997     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000998     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000999     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
** PREFIX
```

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** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.52131
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
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   LOCATION L0001001     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0001002     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0001003     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0001004     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0001005     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0001006     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0001007     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0001008     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0001009     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0001010     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0001011     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0001012     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0001013     VOLUME   478264.089 3716155.225 0.0
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   LOCATION L0001028     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0001029     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0001030     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0001031     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0001032     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0001033     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0001034     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0001035     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0001036     VOLUME   478582.087 3715862.228 0.0
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   LOCATION L0001042     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0001043     VOLUME   478678.869 3715773.055 0.0
   LOCATION L0001044     VOLUME   478692.695 3715760.316 0.0
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   LOCATION L0001046     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0001047     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0001048     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0001049     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0001050     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0001051     VOLUME   478789.477 3715671.143 0.0
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** Source Parameters **
** LINE VOLUME Source ID = SLINE1
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   SRCPARAM L0000949     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000950     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000951     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000952     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000953     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000954     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000955     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000956     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000957     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000958     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000959     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000960     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000961     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000962     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000963     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000964     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000965     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000966     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000967     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000968     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000969     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000970     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000971     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000972     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000973     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000974     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000975     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000976     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000977     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000978     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000979     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000980     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000981     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000982     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000983     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000984     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000985     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000986     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000987     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000988     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000989     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000990     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000991     0.0100251923      0.00      8.74      2.72
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```
   SRCPARAM L0000992     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000993     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000994     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000995     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000996     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000997     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000998     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000999     0.0100251923      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001000     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001001     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001002     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001003     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001004     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001005     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001006     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001007     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001008     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001009     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001010     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001011     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001012     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001013     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001014     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001015     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001016     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001017     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001018     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001019     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001020     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001021     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001022     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001023     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001024     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001025     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001026     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001027     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001028     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001029     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001030     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001031     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001032     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001033     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001034     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001035     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001036     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001037     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001038     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001039     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001040     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001041     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001042     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001043     0.0100251923      0.00      8.74      2.72
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   SRCPARAM L0001044     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001045     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001046     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001047     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001048     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001049     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001050     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001051     0.0100251923      0.00      8.74      2.72
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
   DISCCART    478675.98   3716337.58
```

```
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
```

```
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST 9239_CO.AD\01H1GALL.PLT 31
   PLOTFILE 8 ALL 1ST 9239_CO.AD\08H1GALL.PLT 32
   SUMMFILE 9239_CO.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        16:23:13

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  CO

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_CO.err
 **File for Summary of Results:   9239_CO.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000948	0	0.10025E-01	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES	
L0000949	0	0.10025E-01	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES	
L0000950	0	0.10025E-01	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES	
L0000951	0	0.10025E-01	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES	
L0000952	0	0.10025E-01	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES	
L0000953	0	0.10025E-01	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES	
L0000954	0	0.10025E-01	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES	
L0000955	0	0.10025E-01	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES	
L0000956	0	0.10025E-01	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES	
L0000957	0	0.10025E-01	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES	
L0000958	0	0.10025E-01	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES	
L0000959	0	0.10025E-01	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES	
L0000960	0	0.10025E-01	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES	
L0000961	0	0.10025E-01	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES	
L0000962	0	0.10025E-01	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES	

L0000963	0	0.10025E-01	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000964	0	0.10025E-01	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000965	0	0.10025E-01	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000966	0	0.10025E-01	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000967	0	0.10025E-01	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000968	0	0.10025E-01	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000969	0	0.10025E-01	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000970	0	0.10025E-01	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000971	0	0.10025E-01	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000972	0	0.10025E-01	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000973	0	0.10025E-01	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000974	0	0.10025E-01	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000975	0	0.10025E-01	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000976	0	0.10025E-01	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000977	0	0.10025E-01	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000978	0	0.10025E-01	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000979	0	0.10025E-01	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000980	0	0.10025E-01	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000981	0	0.10025E-01	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000982	0	0.10025E-01	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000983	0	0.10025E-01	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000984	0	0.10025E-01	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000985	0	0.10025E-01	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000986	0	0.10025E-01	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000987	0	0.10025E-01	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000988	0	0.10025E-01	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES	
L0000989	0	0.10025E-01	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES	
L0000990	0	0.10025E-01	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES	
L0000991	0	0.10025E-01	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES	
L0000992	0	0.10025E-01	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES	
L0000993	0	0.10025E-01	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES	
L0000994	0	0.10025E-01	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES	
L0000995	0	0.10025E-01	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES	
L0000996	0	0.10025E-01	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES	
L0000997	0	0.10025E-01	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES	
L0000998	0	0.10025E-01	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES	
L0000999	0	0.10025E-01	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES	
L0001000	0	0.10025E-01	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES	
L0001001	0	0.10025E-01	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES	
L0001002	0	0.10025E-01	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES	

L0001003	0	0.10025E-01	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0001004	0	0.10025E-01	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0001005	0	0.10025E-01	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0001006	0	0.10025E-01	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0001007	0	0.10025E-01	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0001008	0	0.10025E-01	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0001009	0	0.10025E-01	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0001010	0	0.10025E-01	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0001011	0	0.10025E-01	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0001012	0	0.10025E-01	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0001013	0	0.10025E-01	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0001014	0	0.10025E-01	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0001015	0	0.10025E-01	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0001016	0	0.10025E-01	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0001017	0	0.10025E-01	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0001018	0	0.10025E-01	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0001019	0	0.10025E-01	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0001020	0	0.10025E-01	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0001021	0	0.10025E-01	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0001022	0	0.10025E-01	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0001023	0	0.10025E-01	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0001024	0	0.10025E-01	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0001025	0	0.10025E-01	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0001026	0	0.10025E-01	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0001027	0	0.10025E-01	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0001028	0	0.10025E-01	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0001029	0	0.10025E-01	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0001030	0	0.10025E-01	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0001031	0	0.10025E-01	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0001032	0	0.10025E-01	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0001033	0	0.10025E-01	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0001034	0	0.10025E-01	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0001035	0	0.10025E-01	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0001036	0	0.10025E-01	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0001037	0	0.10025E-01	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0001038	0	0.10025E-01	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0001039	0	0.10025E-01	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0001040	0	0.10025E-01	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0001041	0	0.10025E-01	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0001042	0	0.10025E-01	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0001043	0	0.10025E-01	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES
L0001044	0	0.10025E-01	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0001045	0	0.10025E-01	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0001046	0	0.10025E-01	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0001047	0	0.10025E-01	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0001048	0	0.10025E-01	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0001049	0	0.10025E-01	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0001050	0	0.10025E-01	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0001051	0	0.10025E-01	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000948 , L0000949 , L0000950 , L0000951 , L0000952 , L0000953 , L0000954 , L0000955 ,
	L0000956 , L0000957 , L0000958 , L0000959 , L0000960 , L0000961 , L0000962 , L0000963 ,
	L0000964 , L0000965 , L0000966 , L0000967 , L0000968 , L0000969 , L0000970 , L0000971 ,
	L0000972 , L0000973 , L0000974 , L0000975 , L0000976 , L0000977 , L0000978 , L0000979 ,
	L0000980 , L0000981 , L0000982 , L0000983 , L0000984 , L0000985 , L0000986 , L0000987 ,
	L0000988 , L0000989 , L0000990 , L0000991 , L0000992 , L0000993 , L0000994 , L0000995 ,
	L0000996 , L0000997 , L0000998 , L0000999 , L0001000 , L0001001 , L0001002 , L0001003 ,
	L0001004 , L0001005 , L0001006 , L0001007 , L0001008 , L0001009 , L0001010 , L0001011 ,
	L0001012 , L0001013 , L0001014 , L0001015 , L0001016 , L0001017 , L0001018 , L0001019 ,
	L0001020 , L0001021 , L0001022 , L0001023 , L0001024 , L0001025 , L0001026 , L0001027 ,
	L0001028 , L0001029 , L0001030 , L0001031 , L0001032 , L0001033 , L0001034 , L0001035 ,
	L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 , L0001042 , L0001043 ,

L0001044 , L0001045 , L0001046 , L0001047 ,
L0001048 , L0001049 , L0001050 , L0001051 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        16:23:13

PAGE   8
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


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

   Surface file:   ..\elsi8.sfc
Met Version:  14134
   Profile file:   ..\elsi8.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3190                 Upper air station no.:
3190
                  Name: UNKNOWN                                     Name:
UNKNOWN
                  Year:   2008                                      Year:
2008

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0
BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
 08 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.54  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0  0.23
1.00   0.33  999.00  999.   -9.0  285.9    5.5
 08 01 01   1 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0  0.23
1.00   0.25  999.00  999.   -9.0  288.1    5.5
 08 01 01   1 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  289.9    5.5
 08 01 01   1 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  289.9    5.5
```

```
 08 01 01   1 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  292.0    5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0  0.23
1.00   0.27  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0  0.23
1.00   0.36  999.00  999.   -9.0  290.4    5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.63  999.00  999.   -9.0  288.8    5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  287.5    5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  286.4    5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  285.4    5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  282.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000948 , L0000949 , L0000950 , L0000951 , L0000952 ,
L0000953 , L0000954 , L0000955 , L0000956 , L0000957 , L0000958 , L0000959 , L0000960 ,
L0000961 , L0000962 , L0000963 , L0000964 , L0000965 , L0000966 , L0000967 , L0000968 ,
L0000969 , L0000970 , L0000971 , L0000972 , L0000973 , L0000974 , L0000975 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	44.51304	(10092718)	478691.64	3716202.66	43.16909	(10092718)
478707.50	3716202.08	42.18796	(10092718)	478722.13	3716203.48	41.18770	(10092718)
478738.32	3716207.75	39.95765	(09072619)	478755.66	3716207.18	39.07113	(09072619)
478771.82	3716215.80	37.76381	(09072619)	478786.68	3716223.30	36.67425	(12072419)
478802.87	3716229.99	35.65416	(12072419)	478813.58	3716240.83	34.72226	(12072419)
478826.70	3716247.92	33.91596	(12072419)	478839.28	3716257.16	33.08138	(12072419)
478853.06	3716264.52	32.32583	(12072419)	478860.94	3716277.90	31.55880	(12072419)
478873.93	3716286.22	30.86294	(12072419)	478893.91	3716296.70	29.93472	(12072419)
478639.90	3716237.60	43.86206	(12072419)	478661.72	3716250.85	41.47960	(12081019)
478677.78	3716255.94	40.20918	(12080919)	478692.90	3716252.46	39.59243	(12080919)
478708.56	3716251.39	38.83332	(12080919)	478724.49	3716252.33	37.98734	(12080919)

478743.90 3716254.87 36.94419 (12080919)
478760.50 3716263.70 35.79256 (12080919)
478776.16 3716271.33 34.80986 (12080919)
478807.33 3716292.55 32.79311 (12080919)
478818.04 3716304.27 31.99868 (12080919)
478827.44 3716316.65 31.26332 (12080919)
478837.15 3716329.19 30.54811 (12080919)
478848.66 3716343.35 29.76441 (12080919)
478864.52 3716345.21 29.26304 (12080919)
478877.21 3716336.06 29.17190 (12080919)
478687.09 3716357.64 34.56725 (12081019)
478675.98 3716337.58 35.94142 (12081019)
478673.14 3716319.49 36.94615 (12081019)
478675.54 3716299.43 37.85585 (12081019)
478700.17 3716289.41 37.18450 (12080919)
478720.01 3716292.02 36.17370 (12080919)
478736.14 3716295.73 35.32617 (12080919)
478751.18 3716303.14 34.40573 (12080919)
478788.45 3716328.21 32.09419 (12080919)
478797.61 3716340.63 31.35364 (12080919)
478808.94 3716350.88 30.65818 (12080919)
478815.48 3716366.57 29.94740 (12080919)
478825.73 3716377.91 29.30650 (12080919)
478827.76 3716403.05 28.46543 (12080919)
478848.25 3716397.38 28.14862 (12080919)
478869.18 3716398.47 27.62269 (12080919)
478885.75 3716399.12 27.21869 (12080919)
478711.57 3716349.20 33.93273 (12081019)
478731.63 3716355.74 32.88583 (12081019)
478744.71 3716368.82 31.91803 (12080919)
478760.18 3716379.28 31.04941 (12080919)
478772.39 3716393.02 30.20017 (12080919)
478784.82 3716409.59 29.29062 (12080919)
478886.03 3716447.93 25.92098 (12080919)
478866.54 3716446.91 26.33158 (12080919)
478847.82 3716449.22 26.63506 (12080919)
478828.84 3716449.99 26.98851 (12080919)
478829.86 3716485.89 25.94669 (12081019)
478828.84 3716534.37 24.85079 (12112818)
478847.56 3716535.39 24.44586 (12112818)
478848.59 3716488.71 25.49085 (08110202)
478867.82 3716484.87 25.24686 (12080919)
478885.01 3716481.79 25.03967 (12080919)
478865.00 3716539.24 24.01033 (12112818)
478883.98 3716540.01 23.66390 (08110202)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000948 , L0000949 , L0000950 , L0000951 , L0000952 , L0000953 , L0000954 , L0000955 , L0000956 , L0000957 , L0000958 , L0000959 , L0000960 , L0000961 , L0000962 , L0000963 , L0000964 , L0000965 , L0000966 , L0000967 , L0000968 , L0000969 , L0000970 , L0000971 , L0000972 , L0000973 , L0000974 , L0000975 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	37.36466	(09101924)	478691.64	3716202.66	36.23045	(09101924)
478707.50	3716202.08	35.39464	(09101924)	478722.13	3716203.48	34.53329	(09101924)
478738.32	3716207.75	33.45744	(09101924)	478755.66	3716207.18	32.64060	(09101924)
478771.82	3716215.80	31.42249	(09101924)	478786.68	3716223.30	30.39182	(09101924)
478802.87	3716229.99	29.40526	(09101924)	478813.58	3716240.83	28.50796	(09101924)
478826.70	3716247.92	27.72739	(09101924)	478839.28	3716257.16	26.92119	(09101924)
478853.06	3716264.52	26.18922	(09101924)	478860.94	3716277.90	25.45632	(09101924)
478873.93	3716286.22	24.78430	(09101924)	478893.91	3716296.70	23.88558	(09101924)
478639.90	3716237.60	36.68781	(09101924)	478661.72	3716250.85	34.54420	(09101924)
478677.78	3716255.94	33.42536	(09101924)	478692.90	3716252.46	32.94414	(09101924)
478708.56	3716251.39	32.30737	(09101924)	478724.49	3716252.33	31.56345	(09101924)

478743.90 3716254.87 30.61201 (09101924)
478760.50 3716263.70 29.49913 (09101924)
478776.16 3716271.33 28.54163 (09101924)
478807.33 3716292.55 26.54222 (09101924)
478818.04 3716304.27 25.73498 (09101924)
478827.44 3716316.65 24.97748 (09101924)
478837.15 3716329.19 24.23872 (09101924)
478848.66 3716343.35 23.42924 (09101924)
478864.52 3716345.21 22.98874 (09101924)
478877.21 3716336.06 23.00474 (09101924)
478687.09 3716357.64 27.08661 (09101924)
478675.98 3716337.58 28.56108 (09101924)
478673.14 3716319.49 29.72001 (09101924)
478675.54 3716299.43 30.83158 (09101924)
478700.17 3716289.41 30.46937 (09101924)
478720.01 3716292.02 29.58273 (09101924)
478736.14 3716295.73 28.80662 (09101924)
478751.18 3716303.14 27.91684 (09101924)
478788.45 3716328.21 25.60895 (09101924)
478797.61 3716340.63 24.83043 (09101924)
478808.94 3716350.88 24.11761 (09101924)
478815.48 3716366.57 23.33643 (09101924)
478825.73 3716377.91 22.66804 (09101924)
478827.76 3716403.05 21.67270 (09101924)
478848.25 3716397.38 21.49031 (09101924)
478869.18 3716398.47 21.06063 (09101924)
478885.75 3716399.12 20.73819 (09101924)
478711.57 3716349.20 26.84449 (09101924)
478731.63 3716355.74 25.94836 (09101924)
478744.71 3716368.82 24.96929 (09101924)
478760.18 3716379.28 24.10360 (09101924)
478772.39 3716393.02 23.21447 (09101924)
478784.82 3716409.59 22.24727 (09101924)
478886.03 3716447.93 19.14055 (09101924)
478866.54 3716446.91 19.45311 (09101924)
478847.82 3716449.22 19.64470 (09101924)
478828.84 3716449.99 19.89597 (09101924)
478829.86 3716485.89 18.56041 (09101924)
478828.84 3716534.37 16.82836 (09101924)
478847.56 3716535.39 16.64323 (09101924)
478848.59 3716488.71 18.24270 (09101924)
478867.82 3716484.87 18.15341 (09101924)
478885.01 3716481.79 18.05541 (09101924)
478865.00 3716539.24 16.37782 (09101924)
478883.98 3716540.01 16.20628 (09101924)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL HIGH 1ST HIGH VALUE IS	44.51304	ON 10092718:	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL HIGH 1ST HIGH VALUE IS	37.36466	ON 09101924:	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        16:23:13

PAGE  13
 **MODELOPTs:  NonDFAULT CONC                                      FLAT
FASTALL


 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (DPM)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_DPM\9239_DPM.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC DRYDPLT FLAT  FASTALL
   AVERTIME ANNUAL
   URBANOPT 2100516
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL 9239_DPM.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00106
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ---------------------------------------------------------------------
   LOCATION L0000636     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000637     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000638     VOLUME   478135.765 3716327.756 0.0
   LOCATION L0000639     VOLUME   478149.591 3716315.017 0.0
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```
   LOCATION L0000640     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000641     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000642     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000643     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000644     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000645     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000646     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000647     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000648     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000649     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000650     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000651     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000652     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000653     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000654     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000655     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000656     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000657     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000658     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000659     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000660     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000661     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000662     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000663     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000664     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000665     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000666     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000667     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000668     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000669     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000670     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000671     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000672     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000673     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000674     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000675     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000676     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000677     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000678     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000679     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000680     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000681     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000682     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000683     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000684     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000685     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000686     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000687     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
** PREFIX
```

```
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00106
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000688     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000689     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000690     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000691     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000692     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000693     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000694     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000695     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000696     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000697     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000698     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000699     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000700     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000701     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000702     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000703     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000704     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000705     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000706     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000707     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000708     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000709     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000710     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000711     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000712     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000713     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000714     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000715     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000716     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000717     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000718     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000719     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000720     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000721     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000722     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000723     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000724     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000725     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000726     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000727     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000728     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000729     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000730     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000731     VOLUME   478678.869 3715773.055 0.0
   LOCATION L0000732     VOLUME   478692.695 3715760.316 0.0
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   LOCATION L0000733     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000734     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000735     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000736     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000737     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000738     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000739     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000636     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000637     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000638     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000639     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000640     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000641     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000642     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000643     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000644     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000645     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000646     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000647     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000648     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000649     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000650     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000651     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000652     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000653     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000654     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000655     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000656     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000657     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000658     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000659     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000660     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000661     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000662     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000663     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000664     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000665     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000666     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000667     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000668     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000669     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000670     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000671     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000672     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000673     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000674     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000675     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000676     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000677     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000678     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000679     0.0000203846      0.00      8.74      2.72
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   SRCPARAM L0000680     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000681     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000682     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000683     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000684     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000685     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000686     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000687     0.0000203846      0.00      8.74      2.72
** ---------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000688     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000689     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000690     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000691     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000692     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000693     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000694     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000695     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000696     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000697     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000698     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000699     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000700     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000701     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000702     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000703     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000704     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000705     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000706     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000707     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000708     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000709     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000710     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000711     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000712     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000713     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000714     0.0000203846      0.00      8.74      2.72
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   SRCPARAM L0000716     0.0000203846      0.00      8.74      2.72
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   SRCPARAM L0000726     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000727     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000728     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000729     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000730     0.0000203846      0.00      8.74      2.72
   SRCPARAM L0000731     0.0000203846      0.00      8.74      2.72
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** AERMOD Receptor Pathway
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   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
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   DISCCART    478869.18   3716398.47
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   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL 9239_DPM.AD\AN00GALL.PLT 31
   SUMMFILE 9239_DPM.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
```

```
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        14:55:44

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

                                             ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **PARTICLE DEPOSITION Data Provided.
 **Model Uses DRY DEPLETION.     DDPLETE  =  T
 **Model Uses WET DEPLETION.     WETDPLT  =  T

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  DPM

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_DPM.err
 **File for Summary of Results:   9239_DPM.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000636	2	0.20385E-04	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES
L0000637	2	0.20385E-04	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES
L0000638	2	0.20385E-04	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES
L0000639	2	0.20385E-04	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES
L0000640	2	0.20385E-04	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES
L0000641	2	0.20385E-04	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES
L0000642	2	0.20385E-04	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES
L0000643	2	0.20385E-04	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES
L0000644	2	0.20385E-04	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES
L0000645	2	0.20385E-04	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES
L0000646	2	0.20385E-04	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES
L0000647	2	0.20385E-04	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES
L0000648	2	0.20385E-04	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES
L0000649	2	0.20385E-04	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES
L0000650	2	0.20385E-04	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES

L0000651	2	0.20385E-04	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000652	2	0.20385E-04	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000653	2	0.20385E-04	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000654	2	0.20385E-04	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000655	2	0.20385E-04	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000656	2	0.20385E-04	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000657	2	0.20385E-04	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000658	2	0.20385E-04	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000659	2	0.20385E-04	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000660	2	0.20385E-04	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000661	2	0.20385E-04	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000662	2	0.20385E-04	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000663	2	0.20385E-04	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000664	2	0.20385E-04	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000665	2	0.20385E-04	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000666	2	0.20385E-04	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000667	2	0.20385E-04	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000668	2	0.20385E-04	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000669	2	0.20385E-04	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000670	2	0.20385E-04	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000671	2	0.20385E-04	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000672	2	0.20385E-04	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000673	2	0.20385E-04	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000674	2	0.20385E-04	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000675	2	0.20385E-04	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000676	2	0.20385E-04	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES
L0000677	2	0.20385E-04	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES
L0000678	2	0.20385E-04	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES
L0000679	2	0.20385E-04	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES
L0000680	2	0.20385E-04	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES
L0000681	2	0.20385E-04	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES
L0000682	2	0.20385E-04	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES
L0000683	2	0.20385E-04	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES
L0000684	2	0.20385E-04	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES
L0000685	2	0.20385E-04	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES
L0000686	2	0.20385E-04	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES
L0000687	2	0.20385E-04	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES
L0000688	2	0.20385E-04	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES
L0000689	2	0.20385E-04	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES
L0000690	2	0.20385E-04	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES

L0000691	2	0.20385E-04	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000692	2	0.20385E-04	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000693	2	0.20385E-04	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000694	2	0.20385E-04	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000695	2	0.20385E-04	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000696	2	0.20385E-04	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000697	2	0.20385E-04	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000698	2	0.20385E-04	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000699	2	0.20385E-04	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000700	2	0.20385E-04	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000701	2	0.20385E-04	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000702	2	0.20385E-04	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000703	2	0.20385E-04	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000704	2	0.20385E-04	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000705	2	0.20385E-04	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000706	2	0.20385E-04	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000707	2	0.20385E-04	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000708	2	0.20385E-04	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000709	2	0.20385E-04	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000710	2	0.20385E-04	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000711	2	0.20385E-04	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000712	2	0.20385E-04	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000713	2	0.20385E-04	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000714	2	0.20385E-04	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000715	2	0.20385E-04	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000716	2	0.20385E-04	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0000717	2	0.20385E-04	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0000718	2	0.20385E-04	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0000719	2	0.20385E-04	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0000720	2	0.20385E-04	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0000721	2	0.20385E-04	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0000722	2	0.20385E-04	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0000723	2	0.20385E-04	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0000724	2	0.20385E-04	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0000725	2	0.20385E-04	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0000726	2	0.20385E-04	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0000727	2	0.20385E-04	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0000728	2	0.20385E-04	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0000729	2	0.20385E-04	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0000730	2	0.20385E-04	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0000731	2	0.20385E-04	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES
L0000732	2	0.20385E-04	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0000733	2	0.20385E-04	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0000734	2	0.20385E-04	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0000735	2	0.20385E-04	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0000736	2	0.20385E-04	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0000737	2	0.20385E-04	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0000738	2	0.20385E-04	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0000739	2	0.20385E-04	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000636 , L0000637 , L0000638 , L0000639 , L0000640 , L0000641 , L0000642 , L0000643 ,
	L0000644 , L0000645 , L0000646 , L0000647 , L0000648 , L0000649 , L0000650 , L0000651 ,
	L0000652 , L0000653 , L0000654 , L0000655 , L0000656 , L0000657 , L0000658 , L0000659 ,
	L0000660 , L0000661 , L0000662 , L0000663 , L0000664 , L0000665 , L0000666 , L0000667 ,
	L0000668 , L0000669 , L0000670 , L0000671 , L0000672 , L0000673 , L0000674 , L0000675 ,
	L0000676 , L0000677 , L0000678 , L0000679 , L0000680 , L0000681 , L0000682 , L0000683 ,
	L0000684 , L0000685 , L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 ,
	L0000692 , L0000693 , L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 ,
	L0000700 , L0000701 , L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 ,
	L0000708 , L0000709 , L0000710 , L0000711 , L0000712 , L0000713 , L0000714 , L0000715 ,
	L0000716 , L0000717 , L0000718 , L0000719 , L0000720 , L0000721 , L0000722 , L0000723 ,
	L0000724 , L0000725 , L0000726 , L0000727 , L0000728 , L0000729 , L0000730 , L0000731 ,

L0000732 , L0000733 , L0000734 , L0000735 ,
L0000736 , L0000737 , L0000738 , L0000739 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000636 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000637 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000638 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000639 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000640 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000641 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000642 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000643 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000644 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000645 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000646 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000647 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000648 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000649 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000650 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000651 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000652 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000653 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000654 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000655 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000656 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000657 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000658 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000659 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000660 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000661 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000662 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000663 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000664 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000665 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000666 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000667 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000668 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000669 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000670 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000671 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000672 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000673 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000674 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000675 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000676 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000677 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000678 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000679 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000680 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000681 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000682 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000683 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000684 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000685 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000686 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000687 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000688 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000689 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000690 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000691 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000692 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000693 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000694 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000695 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000696 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000697 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000698 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000699 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000700 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000701 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000702 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000703 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000704 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000705 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000706 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000707 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000708 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000709 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000710 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000711 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000712 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000713 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000714 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000715 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000716 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000717 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000718 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000719 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000720 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000721 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000722 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000723 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000724 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000725 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000726 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000727 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000728 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000729 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000730 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000731 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000732 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000733 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000734 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000735 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000736 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000737 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000738 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000739 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        14:55:44

PAGE  43
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

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

   Surface file:   ..\elsi8.sfc
Met Version:  14134
   Profile file:   ..\elsi8.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3190                  Upper air station no.:
3190
                  Name: UNKNOWN                                     Name:
UNKNOWN
                  Year:   2008                                      Year:
2008

 First 24 hours of scalar data
 YR MO DY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN  Z0 BOWEN
ALB  REF WS   WD   HT  REF TA  HT IPCOD PRATE  RH SFCP CCVR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 08 01 01 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.54  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0 0.23 1.00
0.33  999.00  999.  -9.  285.9   6.***  -9.00  999.  965.  0
 08 01 01 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0 0.23 1.00
0.25  999.00  999.  -9.  288.1   6.***  -9.00  999.  965.  0
 08 01 01 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  289.9   6.***  -9.00  999.  965.  0
 08 01 01 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  289.9   6.***  -9.00  999.  965.  0
```

```
 08 01 01 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  292.0   6.***  -9.00  999.  965.  0
 08 01 01 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0 0.23 1.00
0.27  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0 0.23 1.00
0.36  999.00  999.  -9.  290.4   6.***  -9.00  999.  965.  0
 08 01 01 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.63  999.00  999.  -9.  288.8   6.***  -9.00  999.  965.  0
 08 01 01 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  287.5   6.***  -9.00  999.  965.  0
 08 01 01 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  286.4   6.***  -9.00  999.  965.  0
 08 01 01 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  285.4   6.***  -9.00  999.  965.  0
 08 01 01 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  282.5   6.***  -9.00  999.  965.  0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000636 , L0000637 , L0000638 , L0000639 , L0000640 ,
L0000641 , L0000642 , L0000643 , L0000644 , L0000645 , L0000646 , L0000647 , L0000648 ,
L0000649 , L0000650 , L0000651 , L0000652 , L0000653 , L0000654 , L0000655 , L0000656 ,
L0000657 , L0000658 , L0000659 , L0000660 , L0000661 , L0000662 , L0000663 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
478677.13	3716198.67	0.02049	478691.64	3716202.66	0.01942
478707.50	3716202.08	0.01861	478722.13	3716203.48	0.01781
478738.32	3716207.75	0.01686	478755.66	3716207.18	0.01613
478771.82	3716215.80	0.01515	478786.68	3716223.30	0.01434
478802.87	3716229.99	0.01358	478813.58	3716240.83	0.01293
478826.70	3716247.92	0.01236	478839.28	3716257.16	0.01179
478853.06	3716264.52	0.01127	478860.94	3716277.90	0.01080
478873.93	3716286.22	0.01034	478893.91	3716296.70	0.00975
478639.90	3716237.60	0.02020	478661.72	3716250.85	0.01829
478677.78	3716255.94	0.01729	478692.90	3716252.46	0.01680
478708.56	3716251.39	0.01620	478724.49	3716252.33	0.01554

478743.90 3716254.87 0.01473
478760.50 3716263.70 0.01387
478776.16 3716271.33 0.01315
478807.33 3716292.55 0.01172
478818.04 3716304.27 0.01119
478827.44 3716316.65 0.01070
478837.15 3716329.19 0.01024
478848.66 3716343.35 0.00975
478864.52 3716345.21 0.00943
478877.21 3716336.06 0.00937
478687.09 3716357.64 0.01293
478675.98 3716337.58 0.01392
478673.14 3716319.49 0.01469
478675.54 3716299.43 0.01542
478700.17 3716289.41 0.01495
478720.01 3716292.02 0.01420
478736.14 3716295.73 0.01357
478751.18 3716303.14 0.01290
478788.45 3716328.21 0.01129
478797.61 3716340.63 0.01080
478808.94 3716350.88 0.01035
478815.48 3716366.57 0.00990
478825.73 3716377.91 0.00951
478827.76 3716403.05 0.00902
478848.25 3716397.38 0.00880
478869.18 3716398.47 0.00848
478885.75 3716399.12 0.00824
478711.57 3716349.20 0.01256
478731.63 3716355.74 0.01188
478744.71 3716368.82 0.01124
478760.18 3716379.28 0.01067
478772.39 3716393.02 0.01013
478784.82 3716409.59 0.00958
478886.03 3716447.93 0.00756
478866.54 3716446.91 0.00780
478847.82 3716449.22 0.00800
478828.84 3716449.99 0.00823
478829.86 3716485.89 0.00767
478828.84 3716534.37 0.00701
478847.56 3716535.39 0.00683
478848.59 3716488.71 0.00743
478867.82 3716484.87 0.00728
478885.01 3716481.79 0.00714
478865.00 3716539.24 0.00663
478883.98 3716540.01 0.00646

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

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

NETWORK GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.02049	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00) DC	
	2ND HIGHEST VALUE IS	0.02020	AT (478639.90, 3716237.60, 406.00, 406.00, 0.00) DC	
	3RD HIGHEST VALUE IS	0.01942	AT (478691.64, 3716202.66, 406.00, 406.00, 0.00) DC	
	4TH HIGHEST VALUE IS	0.01861	AT (478707.50, 3716202.08, 406.00, 406.00, 0.00) DC	
	5TH HIGHEST VALUE IS	0.01829	AT (478661.72, 3716250.85, 406.00, 406.00, 0.00) DC	
	6TH HIGHEST VALUE IS	0.01781	AT (478722.13, 3716203.48, 406.00, 406.00, 0.00) DC	
	7TH HIGHEST VALUE IS	0.01729	AT (478677.78, 3716255.94, 406.00, 406.00, 0.00) DC	
	8TH HIGHEST VALUE IS	0.01686	AT (478738.32, 3716207.75, 406.00, 406.00, 0.00) DC	
	9TH HIGHEST VALUE IS	0.01680	AT (478692.90, 3716252.46, 406.00, 406.00, 0.00) DC	
	10TH HIGHEST VALUE IS	0.01620	AT (478708.56, 3716251.39, 406.00, 406.00, 0.00) DC	

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        14:55:44

PAGE  46
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)

 Met Data File Includes       0.00 Millimeters (     0.000 Inches) of
Precipitation


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA
 MX W496   43849         MAIN: Total precipitation in SURFFILE is zero
(0.0) with     WetDepos

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (NO2)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.7.0
** Lakes Environmental Software Inc.
** Date: 7/18/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_NO2\9239_NO2.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC FLAT  FASTALL OLM
   AVERTIME 1
   URBANOPT 2100516
   POLLUTID NO2 H1H
   RUNORNOT RUN
** NO2 Conversion Options
   NO2STACK 0.100
   NO2EQUIL 0.900
** Hourly Ozone Data File: U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_NO2\..\ozone data.dat
   OZONEFIL "..\ozone data.dat" PPB
   ERRORFIL 9239_NO2.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.07122
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
```

```
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0001052     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0001053     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0001054     VOLUME   478135.765 3716327.756 0.0
   LOCATION L0001055     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0001056     VOLUME   478163.417 3716302.278 0.0
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   LOCATION L0001103     VOLUME   478813.238 3715703.545 0.0
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** DESCRSRC SB Route 15
** PREFIX
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** Configuration = Adjacent
** Emission Rate = 0.07122
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
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** 478796.661, 3715664.523, 0.00, 0.00, 8.74
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   LOCATION L0001107     VOLUME   478125.829 3716282.615 0.0
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   LOCATION L0001139     VOLUME   478568.261 3715874.967 0.0
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   LOCATION L0001142     VOLUME   478609.739 3715836.750 0.0
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   LOCATION L0001155     VOLUME   478789.477 3715671.143 0.0
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** Source Parameters **
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** OLM Source Groups for Combined Plumes
   OLMGROUP ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
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   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
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   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
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   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
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   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
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   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
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   DISCCART    478760.50   3716263.70
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   DISCCART    478818.04   3716304.27
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   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE "U:\UcAir\6-10-14 AQMD Meteorological data\elsi6.sfc"
   PROFFILE "U:\UcAir\6-10-14 AQMD Meteorological data\elsi6.pfl"
   SURFDATA 0 2005
   UAIRDATA 3190 2005
   SITEDATA 99999 2005
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
```

```
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST 9239_NO2.AD\01H1GALL.PLT 31
   SUMMFILE 9239_NO2.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

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


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


    ********   WARNING MESSAGES   ********
 CO W276      23       POLLID: Special proc for 1h-NO2/SO2 24hPM25 NAAQS
disabled      NO2 H1H
 CO W271      31       COCARD: O3FILE w/o O3VALs; full conv for hrs with
miss O3
 ME W396     482       MEOPEN: Met data from outdated version of AERMET,
version:        12345

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

```
 *** AERMOD - VERSION  14134 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/18/14
 *** AERMET - VERSION  12345 ***   ***
***        10:31:52

PAGE   1
 **MODELOPTs:   NonDFAULT CONC      FLAT      FASTALL   OLM

                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Ozone Limiting Method (OLM) Used for NO2 Conversion
            with an Equilibrium NO2/NOx Ratio of  0.900 and
            with   1 OLMGROUP(s)
         7. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  NO2

 **NOTE: Special processing requirements applicable for the 1-hour NO2
NAAQS have been disabled!!!
         User has specified H1H on the POLLUTID keyword.
         High ranked 1-hour values are NOT averaged across the number of
years modeled, and
         complete years of data are NOT required.

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

```
 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **This Run Includes OZONE    Values for a Single Sector
             HOURLY OZONE    Values are Available

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

 **The AERMET Input Meteorological Data Version Date:  12345

 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_NO2.err
 **File for Summary of Results:   9239_NO2.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0001052	0	0.13696E-02	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES	
L0001053	0	0.13696E-02	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES	
L0001054	0	0.13696E-02	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES	
L0001055	0	0.13696E-02	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES	
L0001056	0	0.13696E-02	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES	
L0001057	0	0.13696E-02	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES	
L0001058	0	0.13696E-02	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES	
L0001059	0	0.13696E-02	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES	
L0001060	0	0.13696E-02	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES	
L0001061	0	0.13696E-02	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES	
L0001062	0	0.13696E-02	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES	
L0001063	0	0.13696E-02	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES	
L0001064	0	0.13696E-02	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES	
L0001065	0	0.13696E-02	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES	
L0001066	0	0.13696E-02	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES	
L0001067	0	0.13696E-02	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES	

L0001068		0	0.13696E-02	478329.3	3716149.4	406.0	0.00	8.74	2.72
YES									
L0001069		0	0.13696E-02	478343.2	3716136.7	406.0	0.00	8.74	2.72
YES									
L0001070		0	0.13696E-02	478357.0	3716123.9	406.0	0.00	8.74	2.72
YES									
L0001071		0	0.13696E-02	478370.8	3716111.2	406.0	0.00	8.74	2.72
YES									
L0001072		0	0.13696E-02	478384.6	3716098.5	406.0	0.00	8.74	2.72
YES									
L0001073		0	0.13696E-02	478398.5	3716085.7	406.0	0.00	8.74	2.72
YES									
L0001074		0	0.13696E-02	478412.3	3716073.0	406.0	0.00	8.74	2.72
YES									
L0001075		0	0.13696E-02	478426.1	3716060.2	406.0	0.00	8.74	2.72
YES									
L0001076		0	0.13696E-02	478439.9	3716047.5	406.0	0.00	8.74	2.72
YES									
L0001077		0	0.13696E-02	478453.8	3716034.8	406.0	0.00	8.74	2.72
YES									
L0001078		0	0.13696E-02	478467.6	3716022.0	406.0	0.00	8.74	2.72
YES									
L0001079		0	0.13696E-02	478481.4	3716009.3	406.0	0.00	8.74	2.72
YES									
L0001080		0	0.13696E-02	478495.2	3715996.5	406.0	0.00	8.74	2.72
YES									
L0001081		0	0.13696E-02	478509.1	3715983.8	406.0	0.00	8.74	2.72
YES									
L0001082		0	0.13696E-02	478522.9	3715971.1	406.0	0.00	8.74	2.72
YES									
L0001083		0	0.13696E-02	478536.7	3715958.3	406.0	0.00	8.74	2.72
YES									
L0001084		0	0.13696E-02	478550.5	3715945.6	406.0	0.00	8.74	2.72
YES									
L0001085		0	0.13696E-02	478564.4	3715932.8	406.0	0.00	8.74	2.72
YES									
L0001086		0	0.13696E-02	478578.2	3715920.1	406.0	0.00	8.74	2.72
YES									
L0001087		0	0.13696E-02	478592.0	3715907.4	406.0	0.00	8.74	2.72
YES									
L0001088		0	0.13696E-02	478605.8	3715894.6	406.0	0.00	8.74	2.72
YES									
L0001089		0	0.13696E-02	478619.7	3715881.9	406.0	0.00	8.74	2.72
YES									
L0001090		0	0.13696E-02	478633.5	3715869.2	406.0	0.00	8.74	2.72
YES									
L0001091		0	0.13696E-02	478647.3	3715856.4	406.0	0.00	8.74	2.72
YES									

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0001092	0	0.13696E-02	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES	
L0001093	0	0.13696E-02	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES	
L0001094	0	0.13696E-02	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES	
L0001095	0	0.13696E-02	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES	
L0001096	0	0.13696E-02	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES	
L0001097	0	0.13696E-02	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES	
L0001098	0	0.13696E-02	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES	
L0001099	0	0.13696E-02	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES	
L0001100	0	0.13696E-02	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES	
L0001101	0	0.13696E-02	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES	
L0001102	0	0.13696E-02	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES	
L0001103	0	0.13696E-02	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES	
L0001104	0	0.13696E-02	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES	
L0001105	0	0.13696E-02	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES	
L0001106	0	0.13696E-02	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES	
L0001107	0	0.13696E-02	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES	

L0001108		0	0.13696E-02	478139.7	3716269.9	406.0	0.00	8.74	2.72
YES									
L0001109		0	0.13696E-02	478153.5	3716257.1	406.0	0.00	8.74	2.72
YES									
L0001110		0	0.13696E-02	478167.3	3716244.4	406.0	0.00	8.74	2.72
YES									
L0001111		0	0.13696E-02	478181.1	3716231.7	406.0	0.00	8.74	2.72
YES									
L0001112		0	0.13696E-02	478195.0	3716218.9	406.0	0.00	8.74	2.72
YES									
L0001113		0	0.13696E-02	478208.8	3716206.2	406.0	0.00	8.74	2.72
YES									
L0001114		0	0.13696E-02	478222.6	3716193.4	406.0	0.00	8.74	2.72
YES									
L0001115		0	0.13696E-02	478236.4	3716180.7	406.0	0.00	8.74	2.72
YES									
L0001116		0	0.13696E-02	478250.3	3716168.0	406.0	0.00	8.74	2.72
YES									
L0001117		0	0.13696E-02	478264.1	3716155.2	406.0	0.00	8.74	2.72
YES									
L0001118		0	0.13696E-02	478277.9	3716142.5	406.0	0.00	8.74	2.72
YES									
L0001119		0	0.13696E-02	478291.7	3716129.7	406.0	0.00	8.74	2.72
YES									
L0001120		0	0.13696E-02	478305.6	3716117.0	406.0	0.00	8.74	2.72
YES									
L0001121		0	0.13696E-02	478319.4	3716104.3	406.0	0.00	8.74	2.72
YES									
L0001122		0	0.13696E-02	478333.2	3716091.5	406.0	0.00	8.74	2.72
YES									
L0001123		0	0.13696E-02	478347.0	3716078.8	406.0	0.00	8.74	2.72
YES									
L0001124		0	0.13696E-02	478360.9	3716066.1	406.0	0.00	8.74	2.72
YES									
L0001125		0	0.13696E-02	478374.7	3716053.3	406.0	0.00	8.74	2.72
YES									
L0001126		0	0.13696E-02	478388.5	3716040.6	406.0	0.00	8.74	2.72
YES									
L0001127		0	0.13696E-02	478402.3	3716027.8	406.0	0.00	8.74	2.72
YES									
L0001128		0	0.13696E-02	478416.2	3716015.1	406.0	0.00	8.74	2.72
YES									
L0001129		0	0.13696E-02	478430.0	3716002.4	406.0	0.00	8.74	2.72
YES									
L0001130		0	0.13696E-02	478443.8	3715989.6	406.0	0.00	8.74	2.72
YES									
L0001131		0	0.13696E-02	478457.7	3715976.9	406.0	0.00	8.74	2.72
YES									

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0001132	0	0.13696E-02	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES	
L0001133	0	0.13696E-02	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES	
L0001134	0	0.13696E-02	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES	
L0001135	0	0.13696E-02	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES	
L0001136	0	0.13696E-02	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES	
L0001137	0	0.13696E-02	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES	
L0001138	0	0.13696E-02	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES	
L0001139	0	0.13696E-02	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES	
L0001140	0	0.13696E-02	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES	
L0001141	0	0.13696E-02	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES	
L0001142	0	0.13696E-02	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES	
L0001143	0	0.13696E-02	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES	
L0001144	0	0.13696E-02	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES	
L0001145	0	0.13696E-02	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES	
L0001146	0	0.13696E-02	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES	
L0001147	0	0.13696E-02	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES	

L0001148		0	0.13696E-02	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0001149		0	0.13696E-02	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0001150		0	0.13696E-02	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0001151		0	0.13696E-02	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0001152		0	0.13696E-02	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0001153		0	0.13696E-02	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0001154		0	0.13696E-02	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0001155		0	0.13696E-02	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 ,
	L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 ,
	L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 ,
	L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 ,
	L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 ,
	L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 ,
	L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 , L0001106 , L0001107 ,
	L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 , L0001114 , L0001115 ,
	L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 ,
	L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 ,
	L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 ,
	L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 ,
	L0001148 , L0001149 , L0001150 , L0001151 , L0001152 , L0001153 , L0001154 , L0001155 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** SOURCE IDs DEFINING OLM SOURCE GROUPS ***
*** FOR COMBINING PLUMES ***

OLMGROUP ID	SOURCE IDs
ALL	L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 ,
	L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 ,
	L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 ,
	L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 ,
	L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 ,
	L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 ,
	L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 , L0001106 , L0001107 ,
	L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 , L0001114 , L0001115 ,
	L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 ,
	L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 ,
	L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 ,
	L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 ,

L0001148 , L0001149 , L0001150 , L0001151 ,
L0001152 , L0001153 , L0001154 , L0001155 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2100516.	L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 ,
		L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 ,
		L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 ,
		L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 ,
		L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 ,
		L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 ,
		L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 , L0001106 , L0001107 ,
		L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 , L0001114 , L0001115 ,
		L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 ,
		L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 ,
		L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 ,
		L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 ,

L0001148 , L0001149 , L0001150 , L0001151 ,
L0001152 , L0001153 , L0001154 , L0001155 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** IN-STACK NO2 RATIOS FOR OLM/PVMRM OPTIONS ***

SOURCE_ID	NO2_RATIO	SOURCE_ID	NO2_RATIO	SOURCE_ID	NO2_RATIO	SOURCE_ID	NO2_RATIO
L0001052	0.050	L0001053	0.050	L0001054	0.050	L0001055	0.050
L0001056	0.050	L0001057	0.050	L0001058	0.050	L0001059	0.050
L0001060	0.050	L0001061	0.050	L0001062	0.050	L0001063	0.050
L0001064	0.050	L0001065	0.050	L0001066	0.050	L0001067	0.050
L0001068	0.050	L0001069	0.050	L0001070	0.050	L0001071	0.050
L0001072	0.050	L0001073	0.050	L0001074	0.050	L0001075	0.050
L0001076	0.050	L0001077	0.050	L0001078	0.050	L0001079	0.050
L0001080	0.050	L0001081	0.050	L0001082	0.050	L0001083	0.050
L0001084	0.050	L0001085	0.050	L0001086	0.050	L0001087	0.050
L0001088	0.050	L0001089	0.050	L0001090	0.050	L0001091	0.050
L0001092	0.050	L0001093	0.050	L0001094	0.050	L0001095	0.050
L0001096	0.050	L0001097	0.050	L0001098	0.050	L0001099	0.050
L0001100	0.050	L0001101	0.050	L0001102	0.050	L0001103	0.050
L0001104	0.050	L0001105	0.050	L0001106	0.050	L0001107	0.050
L0001108	0.050	L0001109	0.050	L0001110	0.050	L0001111	0.050
L0001112	0.050	L0001113	0.050	L0001114	0.050	L0001115	0.050
L0001116	0.050	L0001117	0.050	L0001118	0.050	L0001119	0.050
L0001120	0.050	L0001121	0.050	L0001122	0.050	L0001123	0.050
L0001124	0.050	L0001125	0.050	L0001126	0.050	L0001127	0.050

L0001128	0.050	L0001129	0.050	L0001130	0.050
L0001131	0.050				
L0001132	0.050	L0001133	0.050	L0001134	0.050
L0001135	0.050				
L0001136	0.050	L0001137	0.050	L0001138	0.050
L0001139	0.050				
L0001140	0.050	L0001141	0.050	L0001142	0.050
L0001143	0.050				
L0001144	0.050	L0001145	0.050	L0001146	0.050
L0001147	0.050				
L0001148	0.050	L0001149	0.050	L0001150	0.050
L0001151	0.050				
L0001152	0.050	L0001153	0.050	L0001154	0.050
L0001155	0.050				

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);
(478736.1, 3716295.7, 406.0, 406.0, 0.0); (478751.2, 3716303.1, 406.0, 406.0, 0.0);

(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

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

Surface file: U:\UcAir\6-10-14 AQMD Meteorological data\elsi6.sfc Met Version: 12345
Profile file: U:\UcAir\6-10-14 AQMD Meteorological data\elsi6.pfl
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2005 Year: 2005

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
05	01	01	1	01	-2.0	0.049	-9.000	-9.000	-999.	25.	5.1	0.23	1.00	1.00	0.90	356.	9.1	278.1	5.5
05	01	01	1	02	-8.0	0.098	-9.000	-9.000	-999.	71.	10.1	0.23	1.00	1.00	1.80	13.	9.1	278.1	5.5
05	01	01	1	03	-2.0	0.049	-9.000	-9.000	-999.	25.	5.0	0.23	1.00	1.00	0.90	351.	9.1	277.5	5.5
05	01	01	1	04	-0.4	0.022	-9.000	-9.000	-999.	7.	2.2	0.23	1.00	1.00	0.40	59.	9.1	277.0	5.5
05	01	01	1	05	-0.4	0.022	-9.000	-9.000	-999.	7.	2.2	0.23	1.00	1.00	0.40	105.	9.1	277.5	5.5
05	01	01	1	06	-0.4	0.022	-9.000	-9.000	-999.	7.	2.2	0.23	1.00	1.00	0.40	7.	9.1	277.0	5.5
05	01	01	1	07	-1.7	0.049	-9.000	-9.000	-999.	25.	5.9	0.23	1.00	1.00	0.90	98.	9.1	276.4	5.5
05	01	01	1	08	-1.4	0.049	-9.000	-9.000	-999.	25.	7.4	0.23	1.00	0.54	0.90	60.	9.1	276.4	5.5
05	01	01	1	09	0.1	0.047	0.022	0.007	4.	24.	-90.3	0.23	1.00	0.33	0.40	246.	9.1	277.0	5.5
05	01	01	1	10	0.1	0.047	0.025	0.007	5.	24.	-90.3	0.23	1.00	0.25	0.40	108.	9.1	279.2	5.5
05	01	01	1	11	0.1	0.099	0.027	0.005	7.	72.	-840.2	0.23	1.00	0.23	0.90	275.	9.1	280.4	5.5
05	01	01	1	12	0.1	0.099	0.028	0.005	8.	72.	-840.2	0.23	1.00	0.22	0.90	235.	9.1	282.0	5.5
05	01	01	1	13	0.1	0.142	0.029	0.005	9.	123.	-2478.5	0.23	1.00	0.22	1.30	217.	9.1	283.1	5.5

```
 05 01 01   1 14    0.1  0.099  0.030  0.005    9.   72.   -840.2  0.23
1.00   0.23    0.90  210.    9.1  283.8    5.5
 05 01 01   1 15    0.1  0.047  0.031  0.006   10.   24.    -90.3  0.23
1.00   0.27    0.40  188.    9.1  283.8    5.5
 05 01 01   1 16    0.1  0.047  0.032  0.007   11.   24.    -90.3  0.23
1.00   0.36    0.40  301.    9.1  283.8    5.5
 05 01 01   1 17   -0.3  0.022 -9.000 -9.000 -999.    7.      3.2  0.23
1.00   0.63    0.40  277.    9.1  283.1    5.5
 05 01 01   1 18   -1.7  0.049 -9.000 -9.000 -999.   25.      5.9  0.23
1.00   1.00    0.90  267.    9.1  282.5    5.5
 05 01 01   1 19   -0.3  0.022 -9.000 -9.000 -999.    7.      2.6  0.23
1.00   1.00    0.40  342.    9.1  281.4    5.5
 05 01 01   1 20   -1.7  0.049 -9.000 -9.000 -999.   25.      5.9  0.23
1.00   1.00    0.90    8.    9.1  279.9    5.5
 05 01 01   1 21   -1.7  0.049 -9.000 -9.000 -999.   25.      5.9  0.23
1.00   1.00    0.90  355.    9.1  279.2    5.5
 05 01 01   1 22   -0.3  0.022 -9.000 -9.000 -999.    7.      2.6  0.23
1.00   1.00    0.40  306.    9.1  278.8    5.5
 05 01 01   1 23   -0.3  0.022 -9.000 -9.000 -999.    7.      2.6  0.23
1.00   1.00    0.40  326.    9.1  277.5    5.5
 05 01 01   1 24   -0.3  0.022 -9.000 -9.000 -999.    7.      2.6  0.23
1.00   1.00    0.40    7.    9.1  277.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 05 01 01 01    5.5 0 -999.  -99.00   278.2   99.0  -99.00  -99.00
 05 01 01 01    9.1 1  356.    0.90  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001052 , L0001053 , L0001054 , L0001055 , L0001056 ,
L0001057 , L0001058 , L0001059 , L0001060 , L0001061 , L0001062 , L0001063 , L0001064 ,
L0001065 , L0001066 , L0001067 , L0001068 , L0001069 , L0001070 , L0001071 , L0001072 ,
L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	5.47499	(09072619)	478691.64	3716202.66	5.31408	(09072619)
478707.50	3716202.08	5.19390	(09072619)	478722.13	3716203.48	5.07287	(09072619)
478738.32	3716207.75	4.92563	(09072619)	478755.66	3716207.18	4.81641	(09072619)
478771.82	3716215.80	4.65685	(09072619)	478786.68	3716223.30	4.52333	(09072619)
478802.87	3716229.99	4.39653	(09072619)	478813.58	3716240.83	4.27986	(09072619)
478826.70	3716247.92	4.17946	(09072619)	478839.28	3716257.16	4.07515	(09072619)
478853.06	3716264.52	3.98091	(09072619)	478860.94	3716277.90	3.88410	(09072619)
478873.93	3716286.22	3.79705	(09072619)	478893.91	3716296.70	3.68121	(09072619)
478639.90	3716237.60	5.40773	(09072619)	478661.72	3716250.85	5.10686	(09072619)
478677.78	3716255.94	4.94768	(09072619)	478692.90	3716252.46	4.87496	(09072619)
478708.56	3716251.39	4.78260	(09072619)	478724.49	3716252.33	4.67813	(09072619)
478743.90	3716254.87	4.54862	(09072619)	478760.50	3716263.70	4.40131	(09072619)

478776.16 3716271.33 4.27608 (09072619)
478807.33 3716292.55 4.01600 (08100118)
478818.04 3716304.27 3.91446 (08100118)
478827.44 3716316.65 3.82127 (08062220)
478837.15 3716329.19 3.73214 (08062220)
478848.66 3716343.35 3.63434 (08062220)
478864.52 3716345.21 3.57158 (08062220)
478877.21 3716336.06 3.56676 (08100118)
478687.09 3716357.64 4.21997 (07110317)
478675.98 3716337.58 4.38464 (07110317)
478673.14 3716319.49 4.50639 (07110317)
478675.54 3716299.43 4.62701 (08062220)
478700.17 3716289.41 4.55267 (08062220)
478720.01 3716292.02 4.42851 (08062220)
478736.14 3716295.73 4.32420 (08062220)
478751.18 3716303.14 4.21054 (08062220)
478788.45 3716328.21 3.92409 (08062220)
478797.61 3716340.63 3.83330 (07110317)
478808.94 3716350.88 3.75001 (07110317)
478815.48 3716366.57 3.66762 (07110317)
478825.73 3716377.91 3.59183 (07110317)
478827.76 3716403.05 3.49957 (07110317)
478848.25 3716397.38 3.45372 (07110317)
478869.18 3716398.47 3.38494 (07110317)
478885.75 3716399.12 3.33156 (07110317)
478711.57 3716349.20 4.15132 (07110317)
478731.63 3716355.74 4.03247 (07110317)
478744.71 3716368.82 3.92010 (07110317)
478760.18 3716379.28 3.81669 (07110317)
478772.39 3716393.02 3.71778 (07110317)
478784.82 3716409.59 3.61311 (07110317)
478886.03 3716447.93 3.19569 (07110317)
478866.54 3716446.91 3.25119 (07110317)
478847.82 3716449.22 3.29507 (07110317)
478828.84 3716449.99 3.34426 (07110317)
478829.86 3716485.89 3.22923 (07110317)
478828.84 3716534.37 3.08082 (07110317)
478847.56 3716535.39 3.04016 (07110317)
478848.59 3716488.71 3.17566 (07110317)
478867.82 3716484.87 3.14062 (07110317)
478885.01 3716481.79 3.10744 (07110317)
478865.00 3716539.24 2.99429 (07110317)
478883.98 3716540.01 2.95455 (07110317)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

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

** CONC OF NO2 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	DATE (YYMMDDHH) GRID-ID
ALL	HIGH 1ST HIGH VALUE IS 5.47499 ON 09072619: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00) DC		

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

```
 *** AERMOD - VERSION  14134 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/18/14
 *** AERMET - VERSION  12345 ***   ***
***        10:31:52

PAGE  14
 **MODELOPTs:   NonDFAULT CONC      FLAT      FASTALL   OLM

 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of         1937 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of            0 Calm Hours Identified

 A Total of         1937 Missing Hours Identified (  4.42 Percent)


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


    ********   WARNING MESSAGES   ********
 CO W276      23       POLLID: Special proc for 1h-NO2/SO2 24hPM25 NAAQS
disabled      NO2 H1H
 CO W271      31       COCARD: O3FILE w/o O3VALs; full conv for hrs with
miss O3
 ME W396     482       MEOPEN: Met data from outdated version of AERMET,
version:        12345

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (PM10)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_PM10\9239_PM10.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC DRYDPLT FLAT  FASTALL
   AVERTIME 24 ANNUAL
   URBANOPT 2100516
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL 9239_PM10.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.055919
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000740     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000741     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000742     VOLUME   478135.765 3716327.756 0.0
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   LOCATION L0000743     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0000744     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000745     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000746     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000747     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000748     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000749     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000750     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000751     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000752     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000753     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000754     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000755     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000756     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000757     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000758     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000759     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000760     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000761     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000762     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000763     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000764     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000765     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000766     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000767     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000768     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000769     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000770     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000771     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000772     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000773     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000774     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000775     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000776     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000777     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000778     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000779     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000780     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000781     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000782     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000783     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000784     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000785     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000786     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000787     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000788     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000789     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000790     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000791     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
```

```
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.055919
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
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   LOCATION L0000792     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000793     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000794     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000795     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000796     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000797     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000798     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000799     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000800     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000801     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000802     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000803     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000804     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000805     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000806     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000807     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000808     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000809     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000810     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000811     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000812     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000813     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000814     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000815     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000816     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000817     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000818     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000819     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000820     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000821     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000822     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000823     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000824     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000825     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000826     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000827     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000828     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000829     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000830     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000831     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000832     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000833     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000834     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000835     VOLUME   478678.869 3715773.055 0.0
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   LOCATION L0000836     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0000837     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000838     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000839     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000840     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000841     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000842     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000843     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000740     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000741     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000742     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000743     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000744     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000745     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000747     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000748     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000749     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000750     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000751     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000752     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000754     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000756     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000757     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000758     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000759     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000760     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000761     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000762     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000763     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000764     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000765     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000766     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000767     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000768     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000769     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000771     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000772     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000773     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000774     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000775     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000777     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000778     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000779     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000780     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000781     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000782     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000783     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000784     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000785     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000787     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000789     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000790     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000791     0.0010753654      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000792     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000793     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000794     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000795     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000796     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000797     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000798     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000799     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000800     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000801     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000802     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000803     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000804     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000805     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000806     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000807     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000808     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000809     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000810     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000811     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000812     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000813     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000814     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000815     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000816     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000817     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000819     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000820     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000821     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000825     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000827     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000829     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000830     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000831     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000832     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000833     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000834     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000835     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000836     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000837     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000838     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000839     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000840     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000842     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000843     0.0010753654      0.00      8.74      2.72
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   PARTDIAM L0000772 1 2.5 10
   PARTDIAM L0000773 1 2.5 10
   PARTDIAM L0000774 1 2.5 10
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   PARTDIAM L0000779 1 2.5 10
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   PARTDIAM L0000781 1 2.5 10
   PARTDIAM L0000782 1 2.5 10
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PARTDIAM L0000809 1 2.5 10
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PARTDIAM L0000814 1 2.5 10
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PARTDIAM L0000822 1 2.5 10
PARTDIAM L0000823 1 2.5 10
PARTDIAM L0000824 1 2.5 10
PARTDIAM L0000825 1 2.5 10
PARTDIAM L0000826 1 2.5 10
PARTDIAM L0000827 1 2.5 10
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PARTDIAM L0000831 1 2.5 10
PARTDIAM L0000832 1 2.5 10
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PARTDIAM L0000835 1 2.5 10
PARTDIAM L0000836 1 2.5 10
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MASSFRAX L0000740 0.0787 0.1292 0.7922
MASSFRAX L0000741 0.0787 0.1292 0.7922
MASSFRAX L0000742 0.0787 0.1292 0.7922
MASSFRAX L0000743 0.0787 0.1292 0.7922
MASSFRAX L0000744 0.0787 0.1292 0.7922
MASSFRAX L0000745 0.0787 0.1292 0.7922
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PARTDENS L0000841 2.3 2.3 2.3
PARTDENS L0000842 2.3 2.3 2.3
PARTDENS L0000843 2.3 2.3 2.3
SRCGROUP ALL
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SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
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   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST 9239_PM10.AD\24H1GALL.PLT 31
   PLOTFILE ANNUAL ALL 9239_PM10.AD\AN00GALL.PLT 32
   SUMMFILE 9239_PM10.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
```

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

A Total of            0 Fatal Error Message(s)
A Total of            1 Warning Message(s)
A Total of            0 Informational Message(s)


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


   ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:36:57

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

                                             ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **PARTICLE DEPOSITION Data Provided.
 **Model Uses DRY DEPLETION.     DDPLETE  =  T
 **Model Uses WET DEPLETION.     WETDPLT  =  T

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  1 Short Term Average(s) of:  24-HR
     and Calculates ANNUAL Averages

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  PM_10

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_PM10.err
 **File for Summary of Results:   9239_PM10.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000740	3	0.10754E-02	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES
L0000741	3	0.10754E-02	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES
L0000742	3	0.10754E-02	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES
L0000743	3	0.10754E-02	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES
L0000744	3	0.10754E-02	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES
L0000745	3	0.10754E-02	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES
L0000746	3	0.10754E-02	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES
L0000747	3	0.10754E-02	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES
L0000748	3	0.10754E-02	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES
L0000749	3	0.10754E-02	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES
L0000750	3	0.10754E-02	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES
L0000751	3	0.10754E-02	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES
L0000752	3	0.10754E-02	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES
L0000753	3	0.10754E-02	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES
L0000754	3	0.10754E-02	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES

L0000755	3	0.10754E-02	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000756	3	0.10754E-02	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000757	3	0.10754E-02	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000758	3	0.10754E-02	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000759	3	0.10754E-02	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000760	3	0.10754E-02	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000761	3	0.10754E-02	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000762	3	0.10754E-02	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000763	3	0.10754E-02	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000764	3	0.10754E-02	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000765	3	0.10754E-02	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000766	3	0.10754E-02	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000767	3	0.10754E-02	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000768	3	0.10754E-02	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000769	3	0.10754E-02	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000770	3	0.10754E-02	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000771	3	0.10754E-02	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000772	3	0.10754E-02	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000773	3	0.10754E-02	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000774	3	0.10754E-02	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000775	3	0.10754E-02	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000776	3	0.10754E-02	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000777	3	0.10754E-02	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000778	3	0.10754E-02	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000779	3	0.10754E-02	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000780	3	0.10754E-02	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES
L0000781	3	0.10754E-02	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES
L0000782	3	0.10754E-02	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES
L0000783	3	0.10754E-02	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES
L0000784	3	0.10754E-02	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES
L0000785	3	0.10754E-02	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES
L0000786	3	0.10754E-02	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES
L0000787	3	0.10754E-02	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES
L0000788	3	0.10754E-02	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES
L0000789	3	0.10754E-02	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES
L0000790	3	0.10754E-02	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES
L0000791	3	0.10754E-02	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES
L0000792	3	0.10754E-02	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES
L0000793	3	0.10754E-02	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES
L0000794	3	0.10754E-02	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES

L0000795	3	0.10754E-02	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000796	3	0.10754E-02	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000797	3	0.10754E-02	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000798	3	0.10754E-02	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000799	3	0.10754E-02	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000800	3	0.10754E-02	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000801	3	0.10754E-02	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000802	3	0.10754E-02	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000803	3	0.10754E-02	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000804	3	0.10754E-02	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000805	3	0.10754E-02	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000806	3	0.10754E-02	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000807	3	0.10754E-02	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000808	3	0.10754E-02	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000809	3	0.10754E-02	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000810	3	0.10754E-02	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000811	3	0.10754E-02	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000812	3	0.10754E-02	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000813	3	0.10754E-02	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000814	3	0.10754E-02	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000815	3	0.10754E-02	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000816	3	0.10754E-02	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000817	3	0.10754E-02	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000818	3	0.10754E-02	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000819	3	0.10754E-02	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000820	3	0.10754E-02	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0000821	3	0.10754E-02	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0000822	3	0.10754E-02	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0000823	3	0.10754E-02	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0000824	3	0.10754E-02	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0000825	3	0.10754E-02	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0000826	3	0.10754E-02	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0000827	3	0.10754E-02	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0000828	3	0.10754E-02	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0000829	3	0.10754E-02	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0000830	3	0.10754E-02	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0000831	3	0.10754E-02	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0000832	3	0.10754E-02	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0000833	3	0.10754E-02	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0000834	3	0.10754E-02	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0000835	3	0.10754E-02	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES
L0000836	3	0.10754E-02	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0000837	3	0.10754E-02	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0000838	3	0.10754E-02	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0000839	3	0.10754E-02	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0000840	3	0.10754E-02	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0000841	3	0.10754E-02	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0000842	3	0.10754E-02	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0000843	3	0.10754E-02	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 ,
	L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 ,
	L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 ,
	L0000764 , L0000765 , L0000766 , L0000767 , L0000768 , L0000769 , L0000770 , L0000771 ,
	L0000772 , L0000773 , L0000774 , L0000775 , L0000776 , L0000777 , L0000778 , L0000779 ,
	L0000780 , L0000781 , L0000782 , L0000783 , L0000784 , L0000785 , L0000786 , L0000787 ,
	L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 , L0000794 , L0000795 ,
	L0000796 , L0000797 , L0000798 , L0000799 , L0000800 , L0000801 , L0000802 , L0000803 ,
	L0000804 , L0000805 , L0000806 , L0000807 , L0000808 , L0000809 , L0000810 , L0000811 ,
	L0000812 , L0000813 , L0000814 , L0000815 , L0000816 , L0000817 , L0000818 , L0000819 ,
	L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 , L0000827 ,
	L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , L0000834 , L0000835 ,

L0000836 , L0000837 , L0000838 , L0000839 ,
L0000840 , L0000841 , L0000842 , L0000843 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000740 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000741 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000742 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000743 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000744 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000745 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000746 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000747 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000748 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000749 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000750 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000751 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000752 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000753 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000754 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000755 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000756 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000757 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000758 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000759 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000760 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000761 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000762 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000763 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000764 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000765 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000766 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000767 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000768 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000769 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000770 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000771 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000772 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000773 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000774 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000775 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000776 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000777 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000778 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000779 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000780 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000781 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000782 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000783 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000784 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000785 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000786 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000787 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000788 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000789 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000790 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000791 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000792 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000793 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000794 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000795 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000796 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000797 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000798 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000799 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000800 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000801 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000802 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000803 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000804 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000805 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000806 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000807 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000808 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000809 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000810 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000811 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000812 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000813 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000814 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000815 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000816 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000817 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000818 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000819 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000820 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000821 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000822 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000823 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000824 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000825 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000826 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000827 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000828 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000829 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000830 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000831 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000832 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000833 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000834 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000835 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000836 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000837 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000838 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000839 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000840 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000841 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000842 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000843 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:36:57

PAGE  43
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

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

   Surface file:   ..\elsi8.sfc
Met Version:  14134
   Profile file:   ..\elsi8.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3190                  Upper air station no.:
3190
                  Name: UNKNOWN                                     Name:
UNKNOWN
                  Year:   2008                                      Year:
2008

 First 24 hours of scalar data
 YR MO DY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN  Z0 BOWEN
ALB  REF WS   WD   HT  REF TA  HT IPCOD PRATE  RH SFCP CCVR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 08 01 01 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.54  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0 0.23 1.00
0.33  999.00  999.  -9.  285.9   6.***  -9.00  999.  965.  0
 08 01 01 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0 0.23 1.00
0.25  999.00  999.  -9.  288.1   6.***  -9.00  999.  965.  0
 08 01 01 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  289.9   6.***  -9.00  999.  965.  0
 08 01 01 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  289.9   6.***  -9.00  999.  965.  0
```

```
 08 01 01 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  292.0   6.***  -9.00  999.  965.  0
 08 01 01 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0 0.23 1.00
0.27  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0 0.23 1.00
0.36  999.00  999.  -9.  290.4   6.***  -9.00  999.  965.  0
 08 01 01 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.63  999.00  999.  -9.  288.8   6.***  -9.00  999.  965.  0
 08 01 01 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  287.5   6.***  -9.00  999.  965.  0
 08 01 01 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  286.4   6.***  -9.00  999.  965.  0
 08 01 01 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  285.4   6.***  -9.00  999.  965.  0
 08 01 01 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  282.5   6.***  -9.00  999.  965.  0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 ,
L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 ,
L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 ,
L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
478677.13	3716198.67	0.90762	478691.64	3716202.66	0.85945
478707.50	3716202.08	0.82293	478722.13	3716203.48	0.78685
478738.32	3716207.75	0.74406	478755.66	3716207.18	0.71151
478771.82	3716215.80	0.66735	478786.68	3716223.30	0.63106
478802.87	3716229.99	0.59695	478813.58	3716240.83	0.56766
478826.70	3716247.92	0.54201	478839.28	3716257.16	0.51641
478853.06	3716264.52	0.49326	478860.94	3716277.90	0.47200
478873.93	3716286.22	0.45179	478893.91	3716296.70	0.42507
478639.90	3716237.60	0.89408	478661.72	3716250.85	0.80812
478677.78	3716255.94	0.76316	478692.90	3716252.46	0.74124
478708.56	3716251.39	0.71433	478724.49	3716252.33	0.68462

478743.90 3716254.87 0.64846
478760.50 3716263.70 0.60972
478776.16 3716271.33 0.57733
478807.33 3716292.55 0.51352
478818.04 3716304.27 0.48950
478827.44 3716316.65 0.46781
478837.15 3716329.19 0.44719
478848.66 3716343.35 0.42511
478864.52 3716345.21 0.41097
478877.21 3716336.06 0.40816
478687.09 3716357.64 0.56734
478675.98 3716337.58 0.61202
478673.14 3716319.49 0.64649
478675.54 3716299.43 0.67908
478700.17 3716289.41 0.65830
478720.01 3716292.02 0.62430
478736.14 3716295.73 0.59619
478751.18 3716303.14 0.56629
478788.45 3716328.21 0.49414
478797.61 3716340.63 0.47222
478808.94 3716350.88 0.45193
478815.48 3716366.57 0.43205
478825.73 3716377.91 0.41428
478827.76 3716403.05 0.39257
478848.25 3716397.38 0.38301
478869.18 3716398.47 0.36858
478885.75 3716399.12 0.35780
478711.57 3716349.20 0.55093
478731.63 3716355.74 0.52057
478744.71 3716368.82 0.49200
478760.18 3716379.28 0.46645
478772.39 3716393.02 0.44240
478784.82 3716409.59 0.41756
478886.03 3716447.93 0.32755
478866.54 3716446.91 0.33843
478847.82 3716449.22 0.34716
478828.84 3716449.99 0.35730
478829.86 3716485.89 0.33272
478828.84 3716534.37 0.30351
478847.56 3716535.39 0.29532
478848.59 3716488.71 0.32184
478867.82 3716484.87 0.31503
478885.01 3716481.79 0.30880
478865.00 3716539.24 0.28642
478883.98 3716540.01 0.27884

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 ,
L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 ,
L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 ,
L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	1.73064	(08012824)	478691.64	3716202.66	1.64126	(08012824)
478707.50	3716202.08	1.57153	(08012824)	478722.13	3716203.48	1.50676	(08012124)
478738.32	3716207.75	1.43226	(08122324)	478755.66	3716207.18	1.37858	(08122324)
478771.82	3716215.80	1.30723	(08122324)	478786.68	3716223.30	1.24762	(08122324)
478802.87	3716229.99	1.19285	(08101024)	478813.58	3716240.83	1.14790	(08101024)
478826.70	3716247.92	1.10712	(08101024)	478839.28	3716257.16	1.06639	(08101024)
478853.06	3716264.52	1.02856	(08101024)	478860.94	3716277.90	0.99531	(08101024)
478873.93	3716286.22	0.96165	(08101024)	478893.91	3716296.70	0.91587	(08101024)
478639.90	3716237.60	1.71810	(08012824)	478661.72	3716250.85	1.55974	(08012824)
478677.78	3716255.94	1.47552	(08122324)	478692.90	3716252.46	1.43919	(08122324)
478708.56	3716251.39	1.39494	(08122324)	478724.49	3716252.33	1.34605	(08122324)

478743.90 3716254.87 1.28595 (08122324)
478760.50 3716263.70 1.22428 (08101024)
478776.16 3716271.33 1.17347 (08101024)
478807.33 3716292.55 1.07240 (08101024)
478818.04 3716304.27 1.03427 (08101024)
478827.44 3716316.65 0.99966 (08101024)
478837.15 3716329.19 0.96620 (08101024)
478848.66 3716343.35 0.92965 (08101024)
478864.52 3716345.21 0.90389 (08101024)
478877.21 3716336.06 0.89618 (08101024)
478687.09 3716357.64 1.18315 (08101024)
478675.98 3716337.58 1.25282 (08101024)
478673.14 3716319.49 1.30379 (08101024)
478675.54 3716299.43 1.34945 (08101024)
478700.17 3716289.41 1.31191 (08101024)
478720.01 3716292.02 1.25741 (08101024)
478736.14 3716295.73 1.21240 (08101024)
478751.18 3716303.14 1.16500 (08101024)
478788.45 3716328.21 1.04917 (08101024)
478797.61 3716340.63 1.01392 (08101024)
478808.94 3716350.88 0.98025 (08101024)
478815.48 3716366.57 0.94776 (08101024)
478825.73 3716377.91 0.91745 (08101024)
478827.76 3716403.05 0.88153 (08101024)
478848.25 3716397.38 0.86248 (08101024)
478869.18 3716398.47 0.83504 (08101024)
478885.75 3716399.12 0.81418 (08101024)
478711.57 3716349.20 1.15276 (08101024)
478731.63 3716355.74 1.10217 (08101024)
478744.71 3716368.82 1.05533 (08101024)
478760.18 3716379.28 1.01223 (08101024)
478772.39 3716393.02 0.97155 (08101024)
478784.82 3716409.59 0.92894 (08101024)
478886.03 3716447.93 0.76303 (08101024)
478866.54 3716446.91 0.78446 (08101024)
478847.82 3716449.22 0.80188 (08101024)
478828.84 3716449.99 0.82162 (08101024)
478829.86 3716485.89 0.77872 (08101024)
478828.84 3716534.37 0.72571 (08101024)
478847.56 3716535.39 0.70966 (08101024)
478848.59 3716488.71 0.75771 (08101024)
478867.82 3716484.87 0.74367 (08101024)
478885.01 3716481.79 0.73071 (08101024)
478865.00 3716539.24 0.69215 (08101024)
478883.98 3716540.01 0.67689 (08101024)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.90762	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.89408	AT (478639.90, 3716237.60, 406.00, 406.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.85945	AT (478691.64, 3716202.66, 406.00, 406.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.82293	AT (478707.50, 3716202.08, 406.00, 406.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.80812	AT (478661.72, 3716250.85, 406.00, 406.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.78685	AT (478722.13, 3716203.48, 406.00, 406.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.76316	AT (478677.78, 3716255.94, 406.00, 406.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.74406	AT (478738.32, 3716207.75, 406.00, 406.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.74124	AT (478692.90, 3716252.46, 406.00, 406.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.71433	AT (478708.56, 3716251.39, 406.00, 406.00, 0.00)	DC	

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

**MODELOPTs: NonDFAULT CONC FLAT
FASTALL
DRYDPLT WETDPLT

*** THE SUMMARY OF
HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN
MICROGRAMS/M**3 **

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

ALL HIGH 1ST HIGH VALUE IS 1.73064 ON 08012824: AT (
478677.13, 3716198.67, 406.00, 406.00, 0.00) DC

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:36:57

PAGE  48
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)

 Met Data File Includes       0.00 Millimeters (     0.000 Inches) of
Precipitation


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA
 MX W496   43849         MAIN: Total precipitation in SURFFILE is zero
(0.0) with     WetDepos

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (PM2.5)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_PM25\9239_PM25.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC DRYDPLT FLAT  FASTALL
   AVERTIME 24
   URBANOPT 2100516
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL 9239_PM25.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.01827
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ---------------------------------------------------------------------
   LOCATION L0000844     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000845     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000846     VOLUME   478135.765 3716327.756 0.0
```

```
   LOCATION L0000847     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0000848     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000849     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000850     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000851     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000852     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000853     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000854     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000855     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000856     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000857     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000858     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000859     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000860     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000861     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000862     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000863     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000864     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000865     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000866     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000867     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000868     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000869     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000870     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000871     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000872     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000873     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000874     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000875     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000876     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000877     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000878     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000879     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000880     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000881     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000882     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000883     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000884     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000885     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000886     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000887     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000888     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000889     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000890     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000891     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000892     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000893     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000894     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000895     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
```

```
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.01827
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000896     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000897     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000898     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000899     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000900     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000901     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000902     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000903     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000904     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000905     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000906     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000907     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000908     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000909     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000910     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000911     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000912     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000913     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000914     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000915     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000916     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000917     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000918     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000919     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000920     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000921     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000922     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000923     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000924     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000925     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000926     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000927     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000928     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000929     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000930     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000931     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000932     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000933     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000934     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000935     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000936     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000937     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000938     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000939     VOLUME   478678.869 3715773.055 0.0
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   LOCATION L0000940     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0000941     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000942     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000943     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000944     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000945     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000946     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000947     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000844     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000845     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000846     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000847     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000848     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000849     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000850     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000851     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000852     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000853     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000854     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000855     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000856     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000857     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000858     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000859     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000860     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000861     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000862     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000863     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000864     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000865     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000866     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000867     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000868     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000869     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000870     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000871     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000872     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000873     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000874     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000875     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000876     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000877     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000878     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000879     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000880     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000881     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000882     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000883     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000884     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000885     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000886     0.0003513462      0.00      8.74      2.72
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   SRCPARAM L0000887     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000888     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000889     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000890     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000891     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000892     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000893     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000894     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000895     0.0003513462      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000896     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000897     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000898     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000899     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000900     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000901     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000902     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000903     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000904     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000905     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000906     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000907     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000908     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000909     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000910     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000911     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000912     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000913     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000914     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000915     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000916     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000917     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000918     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000919     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000920     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000921     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000922     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000923     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000924     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000925     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000926     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000927     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000928     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000929     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000930     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000931     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000932     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000933     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000934     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000935     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000936     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000937     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000938     0.0003513462      0.00      8.74      2.72
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   SRCPARAM L0000939     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000940     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000941     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000942     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000943     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000944     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000945     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000946     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000947     0.0003513462      0.00      8.74      2.72
** ----------------------------------------------------------------------
   URBANSRC ALL
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PARTDENS L0000945 2.3 2.3
PARTDENS L0000946 2.3 2.3
PARTDENS L0000947 2.3 2.3
SRCGROUP ALL
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SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
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   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
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   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST 9239_PM25.AD\24H1GALL.PLT 31
   SUMMFILE 9239_PM25.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
```

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                         DRYDPLT   WETDPLT

                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **PARTICLE DEPOSITION Data Provided.
 **Model Uses DRY DEPLETION.     DDPLETE  =  T
 **Model Uses WET DEPLETION.     WETDPLT  =  T

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  1 Short Term Average(s) of:  24-HR

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  PM_2.5

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_PM25.err
 **File for Summary of Results:   9239_PM25.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000844	2	0.35135E-03	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES
L0000845	2	0.35135E-03	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES
L0000846	2	0.35135E-03	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES
L0000847	2	0.35135E-03	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES
L0000848	2	0.35135E-03	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES
L0000849	2	0.35135E-03	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES
L0000850	2	0.35135E-03	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES
L0000851	2	0.35135E-03	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES
L0000852	2	0.35135E-03	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES
L0000853	2	0.35135E-03	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES
L0000854	2	0.35135E-03	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES
L0000855	2	0.35135E-03	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES
L0000856	2	0.35135E-03	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES
L0000857	2	0.35135E-03	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES
L0000858	2	0.35135E-03	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES

L0000859	2	0.35135E-03	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000860	2	0.35135E-03	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000861	2	0.35135E-03	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000862	2	0.35135E-03	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000863	2	0.35135E-03	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000864	2	0.35135E-03	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000865	2	0.35135E-03	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000866	2	0.35135E-03	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000867	2	0.35135E-03	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000868	2	0.35135E-03	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000869	2	0.35135E-03	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000870	2	0.35135E-03	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000871	2	0.35135E-03	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000872	2	0.35135E-03	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000873	2	0.35135E-03	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000874	2	0.35135E-03	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000875	2	0.35135E-03	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000876	2	0.35135E-03	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000877	2	0.35135E-03	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000878	2	0.35135E-03	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000879	2	0.35135E-03	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000880	2	0.35135E-03	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000881	2	0.35135E-03	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000882	2	0.35135E-03	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000883	2	0.35135E-03	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000884	2	0.35135E-03	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES
L0000885	2	0.35135E-03	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES
L0000886	2	0.35135E-03	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES
L0000887	2	0.35135E-03	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES
L0000888	2	0.35135E-03	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES
L0000889	2	0.35135E-03	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES
L0000890	2	0.35135E-03	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES
L0000891	2	0.35135E-03	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES
L0000892	2	0.35135E-03	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES
L0000893	2	0.35135E-03	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES
L0000894	2	0.35135E-03	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES
L0000895	2	0.35135E-03	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES
L0000896	2	0.35135E-03	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES
L0000897	2	0.35135E-03	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES
L0000898	2	0.35135E-03	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES

L0000899	2	0.35135E-03	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000900	2	0.35135E-03	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000901	2	0.35135E-03	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000902	2	0.35135E-03	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000903	2	0.35135E-03	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000904	2	0.35135E-03	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000905	2	0.35135E-03	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000906	2	0.35135E-03	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000907	2	0.35135E-03	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000908	2	0.35135E-03	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000909	2	0.35135E-03	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000910	2	0.35135E-03	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000911	2	0.35135E-03	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000912	2	0.35135E-03	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000913	2	0.35135E-03	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000914	2	0.35135E-03	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000915	2	0.35135E-03	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000916	2	0.35135E-03	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000917	2	0.35135E-03	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000918	2	0.35135E-03	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000919	2	0.35135E-03	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000920	2	0.35135E-03	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000921	2	0.35135E-03	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000922	2	0.35135E-03	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000923	2	0.35135E-03	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000924	2	0.35135E-03	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0000925	2	0.35135E-03	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0000926	2	0.35135E-03	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0000927	2	0.35135E-03	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0000928	2	0.35135E-03	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0000929	2	0.35135E-03	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0000930	2	0.35135E-03	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0000931	2	0.35135E-03	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0000932	2	0.35135E-03	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0000933	2	0.35135E-03	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0000934	2	0.35135E-03	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0000935	2	0.35135E-03	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0000936	2	0.35135E-03	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0000937	2	0.35135E-03	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0000938	2	0.35135E-03	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0000939	2	0.35135E-03	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES
L0000940	2	0.35135E-03	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0000941	2	0.35135E-03	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0000942	2	0.35135E-03	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0000943	2	0.35135E-03	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0000944	2	0.35135E-03	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0000945	2	0.35135E-03	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0000946	2	0.35135E-03	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0000947	2	0.35135E-03	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000844 , L0000845 , L0000846 , L0000847 , L0000848 , L0000849 , L0000850 , L0000851 ,
	L0000852 , L0000853 , L0000854 , L0000855 , L0000856 , L0000857 , L0000858 , L0000859 ,
	L0000860 , L0000861 , L0000862 , L0000863 , L0000864 , L0000865 , L0000866 , L0000867 ,
	L0000868 , L0000869 , L0000870 , L0000871 , L0000872 , L0000873 , L0000874 , L0000875 ,
	L0000876 , L0000877 , L0000878 , L0000879 , L0000880 , L0000881 , L0000882 , L0000883 ,
	L0000884 , L0000885 , L0000886 , L0000887 , L0000888 , L0000889 , L0000890 , L0000891 ,
	L0000892 , L0000893 , L0000894 , L0000895 , L0000896 , L0000897 , L0000898 , L0000899 ,
	L0000900 , L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 ,
	L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 ,
	L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 ,
	L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , L0000929 , L0000930 , L0000931 ,
	L0000932 , L0000933 , L0000934 , L0000935 , L0000936 , L0000937 , L0000938 , L0000939 ,

L0000940 , L0000941 , L0000942 , L0000943 ,
L0000944 , L0000945 , L0000946 , L0000947 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000844 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000845 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000846 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000847 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000848 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000849 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000850 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000851 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000852 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000853 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000854 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000855 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000856 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000857 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000858 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000859 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000860 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000861 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000862 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000863 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000864 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000865 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000866 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000867 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000868 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000869 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000870 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000871 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000872 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000873 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000874 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000875 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000876 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000877 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000878 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000879 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000880 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000881 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000882 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000883 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000884 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000885 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000886 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000887 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000888 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000889 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000890 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000891 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000892 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000893 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000894 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000895 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000896 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000897 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000898 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000899 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000900 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000901 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000902 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000903 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000904 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000905 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000906 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000907 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000908 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000909 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000910 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000911 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000912 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000913 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000914 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000915 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000916 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000917 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000918 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000919 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000920 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000921 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000922 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000923 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000924 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000925 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000926 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000927 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000928 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000929 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000930 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000931 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000932 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000933 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000934 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000935 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000936 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000937 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000938 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000939 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000940 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000941 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000942 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000943 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000944 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000945 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000946 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000947 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

Surface file: ..\elsi8.sfc
Met Version: 14134
Profile file: ..\elsi8.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3190 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2008 Year: 2008

First 24 hours of scalar data

YR	MO	DY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALB	REF WS	WD	HT	REF TA	HT	IPCOD	PRATE	RH	SFCP	CCVR
08	01	01	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	284.2	6.***	-9.00	999.	965.	0	
08	01	01	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.1	6.***	-9.00	999.	965.	0	
08	01	01	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.1	6.***	-9.00	999.	965.	0	
08	01	01	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.8	6.***	-9.00	999.	965.	0	
08	01	01	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.8	6.***	-9.00	999.	965.	0	
08	01	01	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.8	6.***	-9.00	999.	965.	0	
08	01	01	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.1	6.***	-9.00	999.	965.	0	
08	01	01	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	0.54	999.00	999.	-9.	283.8	6.***	-9.00	999.	965.	0	
08	01	01	09	27.2	-9.000	-9.000	-9.000	60.	-999.	-99999.0	0.23	1.00	0.33	999.00	999.	-9.	285.9	6.***	-9.00	999.	965.	0	
08	01	01	10	74.6	-9.000	-9.000	-9.000	157.	-999.	-99999.0	0.23	1.00	0.25	999.00	999.	-9.	288.1	6.***	-9.00	999.	965.	0	
08	01	01	11	107.4	-9.000	-9.000	-9.000	375.	-999.	-99999.0	0.23	1.00	0.23	999.00	999.	-9.	289.9	6.***	-9.00	999.	965.	0	
08	01	01	12	122.7	-9.000	-9.000	-9.000	578.	-999.	-99999.0	0.23	1.00	0.22	999.00	999.	-9.	289.9	6.***	-9.00	999.	965.	0	

```
 08 01 01 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  292.0   6.***  -9.00  999.  965.  0
 08 01 01 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0 0.23 1.00
0.27  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0 0.23 1.00
0.36  999.00  999.  -9.  290.4   6.***  -9.00  999.  965.  0
 08 01 01 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.63  999.00  999.  -9.  288.8   6.***  -9.00  999.  965.  0
 08 01 01 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  287.5   6.***  -9.00  999.  965.  0
 08 01 01 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  286.4   6.***  -9.00  999.  965.  0
 08 01 01 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  285.4   6.***  -9.00  999.  965.  0
 08 01 01 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  282.5   6.***  -9.00  999.  965.  0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000844 , L0000845 , L0000846 , L0000847 , L0000848 ,
L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 ,
L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 ,
L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.73587	(08012824)	478691.64	3716202.66	0.69976	(08012824)
478707.50	3716202.08	0.67140	(08012824)	478722.13	3716203.48	0.64338	(08012824)
478738.32	3716207.75	0.61018	(08012824)	478755.66	3716207.18	0.58430m	(10042124)
478771.82	3716215.80	0.55501m	(10042124)	478786.68	3716223.30	0.53091m	(10042124)
478802.87	3716229.99	0.50856m	(10042124)	478813.58	3716240.83	0.49035m	(10042924)
478826.70	3716247.92	0.47435m	(10042924)	478839.28	3716257.16	0.45797m	(10042924)
478853.06	3716264.52	0.44263m	(10042924)	478860.94	3716277.90	0.42868m	(10042924)
478873.93	3716286.22	0.41474m	(10042924)	478893.91	3716296.70	0.39575m	(10042924)
478639.90	3716237.60	0.73169	(08012824)	478661.72	3716250.85	0.66775	(08012824)
478677.78	3716255.94	0.63338	(08012824)	478692.90	3716252.46	0.61551	(08012824)
478708.56	3716251.39	0.59384	(08012824)	478724.49	3716252.33	0.56998	(08012824)

478743.90 3716254.87 0.54081 (08012824)
478760.50 3716263.70 0.51460m (10042924)
478776.16 3716271.33 0.49592m (10042924)
478807.33 3716292.55 0.45709m (10042924)
478818.04 3716304.27 0.44167m (10042924)
478827.44 3716316.65 0.42737m (10042924)
478837.15 3716329.19 0.41343m (10042924)
478848.66 3716343.35 0.39814m (10042924)
478864.52 3716345.21 0.38798m (10042924)
478877.21 3716336.06 0.38559m (10042924)
478687.09 3716357.64 0.48862 (08012824)
478675.98 3716337.58 0.52325 (08012824)
478673.14 3716319.49 0.54910 (08012824)
478675.54 3716299.43 0.57275 (08012824)
478700.17 3716289.41 0.55440 (08012824)
478720.01 3716292.02 0.52682 (08012824)
478736.14 3716295.73 0.50479m (10042924)
478751.18 3716303.14 0.48751m (10042924)
478788.45 3716328.21 0.44371m (10042924)
478797.61 3716340.63 0.42948m (10042924)
478808.94 3716350.88 0.41611m (10042924)
478815.48 3716366.57 0.40240m (10042924)
478825.73 3716377.91 0.39005m (10042924)
478827.76 3716403.05 0.37405m (10042924)
478848.25 3716397.38 0.36769m (10042924)
478869.18 3716398.47 0.35720m (10042924)
478885.75 3716399.12 0.34909m (10042924)
478711.57 3716349.20 0.47441 (08101024)
478731.63 3716355.74 0.45585m (10042924)
478744.71 3716368.82 0.43800m (10042924)
478760.18 3716379.28 0.42201m (10042924)
478772.39 3716393.02 0.40619m (10042924)
478784.82 3716409.59 0.38925m (10042924)
478886.03 3716447.93 0.32548m (10042924)
478866.54 3716446.91 0.33363m (10042924)
478847.82 3716449.22 0.33974m (10042924)
478828.84 3716449.99 0.34662m (10042924)
478829.86 3716485.89 0.32745 (08101024)
478828.84 3716534.37 0.30646 (08101024)
478847.56 3716535.39 0.30010 (08101024)
478848.59 3716488.71 0.31912 (08101024)
478867.82 3716484.87 0.31436m (10042924)
478885.01 3716481.79 0.30998m (10042924)
478865.00 3716539.24 0.29315 (08101024)
478883.98 3716540.01 0.28709 (08101024)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

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

ALL HIGH 1ST HIGH VALUE IS 0.73587 ON 08012824: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00) DC

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        16:01:35

PAGE  46
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)

 Met Data File Includes       0.00 Millimeters (     0.000 Inches) of
Precipitation


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA
 MX W496   43849         MAIN: Total precipitation in SURFFILE is zero
(0.0) with     WetDepos

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (TOG DIESEL)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_TOG
Diesel\9239_TOG Diesel.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC FLAT  FASTALL
   AVERTIME 1 8
   URBANOPT 2100516
   POLLUTID TOGDSL
   RUNORNOT RUN
   ERRORFIL "9239_TOG Diesel.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00039
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ---------------------------------------------------------------------
   LOCATION L0000844     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000845     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000846     VOLUME   478135.765 3716327.756 0.0
```

```
   LOCATION L0000847     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0000848     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000849     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000850     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000851     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000852     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000853     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000854     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000855     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000856     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000857     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000858     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000859     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000860     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000861     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000862     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000863     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000864     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000865     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000866     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000867     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000868     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000869     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000870     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000871     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000872     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000873     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000874     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000875     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000876     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000877     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000878     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000879     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000880     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000881     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000882     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000883     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000884     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000885     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000886     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000887     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000888     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000889     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000890     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000891     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000892     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000893     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000894     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000895     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
```

```
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00039
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000896     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000897     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000898     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000899     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000900     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000901     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000902     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000903     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000904     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000905     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000906     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000907     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000908     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000909     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000910     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000911     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000912     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000913     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000914     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000915     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000916     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000917     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000918     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000919     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000920     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000921     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000922     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000923     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000924     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000925     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000926     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000927     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000928     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000929     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000930     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000931     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000932     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000933     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000934     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000935     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000936     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000937     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000938     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000939     VOLUME   478678.869 3715773.055 0.0
```

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   LOCATION L0000940     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0000941     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000942     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000943     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000944     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000945     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000946     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000947     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000844     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000845     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000846     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000847     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000848     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000849     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000850     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000851     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000852     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000853     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000854     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000855     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000856     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000857     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000858     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000859     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000860     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000861     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000862     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000863     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000864     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000865     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000866     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000867     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000868     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000869     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000870     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000871     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000872     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000873     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000874     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000875     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000876     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000877     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000878     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000879     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000880     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000881     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000882     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000883     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000884     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000885     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000886     0.0000075      0.00      8.74      2.72
```

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   SRCPARAM L0000887     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000888     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000889     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000890     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000891     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000892     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000893     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000894     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000895     0.0000075      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000896     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000897     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000898     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000899     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000900     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000901     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000902     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000903     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000904     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000905     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000906     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000907     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000908     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000909     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000910     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000911     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000912     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000913     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000914     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000915     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000916     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000917     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000918     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000919     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000920     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000921     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000922     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000923     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000924     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000925     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000926     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000927     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000928     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000929     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000930     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000931     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000932     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000933     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000934     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000935     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000936     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000937     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000938     0.0000075      0.00      8.74      2.72
```

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   SRCPARAM L0000939     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000940     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000941     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000942     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000943     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000944     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000945     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000946     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000947     0.0000075      0.00      8.74      2.72
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
```

```
   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
```

```
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "9239_TOG DIESEL.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "9239_TOG DIESEL.AD\08H1GALL.PLT" 32
   SUMMFILE "9239_TOG Diesel.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:25:08

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  TOGDSL

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_TOG Diesel.err
 **File for Summary of Results:   9239_TOG Diesel.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000844	0	0.75000E-05	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES	
L0000845	0	0.75000E-05	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES	
L0000846	0	0.75000E-05	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES	
L0000847	0	0.75000E-05	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES	
L0000848	0	0.75000E-05	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES	
L0000849	0	0.75000E-05	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES	
L0000850	0	0.75000E-05	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES	
L0000851	0	0.75000E-05	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES	
L0000852	0	0.75000E-05	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES	
L0000853	0	0.75000E-05	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES	
L0000854	0	0.75000E-05	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES	
L0000855	0	0.75000E-05	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES	
L0000856	0	0.75000E-05	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES	
L0000857	0	0.75000E-05	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES	
L0000858	0	0.75000E-05	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES	

L0000859	0	0.75000E-05	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000860	0	0.75000E-05	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000861	0	0.75000E-05	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000862	0	0.75000E-05	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000863	0	0.75000E-05	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000864	0	0.75000E-05	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000865	0	0.75000E-05	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000866	0	0.75000E-05	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000867	0	0.75000E-05	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000868	0	0.75000E-05	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000869	0	0.75000E-05	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000870	0	0.75000E-05	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000871	0	0.75000E-05	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000872	0	0.75000E-05	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000873	0	0.75000E-05	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000874	0	0.75000E-05	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000875	0	0.75000E-05	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000876	0	0.75000E-05	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000877	0	0.75000E-05	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000878	0	0.75000E-05	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000879	0	0.75000E-05	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000880	0	0.75000E-05	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000881	0	0.75000E-05	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000882	0	0.75000E-05	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000883	0	0.75000E-05	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000884	0	0.75000E-05	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES	
L0000885	0	0.75000E-05	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES	
L0000886	0	0.75000E-05	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES	
L0000887	0	0.75000E-05	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES	
L0000888	0	0.75000E-05	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES	
L0000889	0	0.75000E-05	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES	
L0000890	0	0.75000E-05	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES	
L0000891	0	0.75000E-05	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES	
L0000892	0	0.75000E-05	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES	
L0000893	0	0.75000E-05	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES	
L0000894	0	0.75000E-05	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES	
L0000895	0	0.75000E-05	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES	
L0000896	0	0.75000E-05	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES	
L0000897	0	0.75000E-05	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES	
L0000898	0	0.75000E-05	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES	

L0000899	0	0.75000E-05	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000900	0	0.75000E-05	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000901	0	0.75000E-05	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000902	0	0.75000E-05	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000903	0	0.75000E-05	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000904	0	0.75000E-05	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000905	0	0.75000E-05	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000906	0	0.75000E-05	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000907	0	0.75000E-05	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000908	0	0.75000E-05	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000909	0	0.75000E-05	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000910	0	0.75000E-05	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000911	0	0.75000E-05	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000912	0	0.75000E-05	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000913	0	0.75000E-05	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000914	0	0.75000E-05	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000915	0	0.75000E-05	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000916	0	0.75000E-05	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000917	0	0.75000E-05	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000918	0	0.75000E-05	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000919	0	0.75000E-05	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000920	0	0.75000E-05	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000921	0	0.75000E-05	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000922	0	0.75000E-05	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000923	0	0.75000E-05	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000924	0	0.75000E-05	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES	
L0000925	0	0.75000E-05	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES	
L0000926	0	0.75000E-05	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES	
L0000927	0	0.75000E-05	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES	
L0000928	0	0.75000E-05	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES	
L0000929	0	0.75000E-05	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES	
L0000930	0	0.75000E-05	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES	
L0000931	0	0.75000E-05	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES	
L0000932	0	0.75000E-05	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES	
L0000933	0	0.75000E-05	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES	
L0000934	0	0.75000E-05	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES	
L0000935	0	0.75000E-05	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES	
L0000936	0	0.75000E-05	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES	
L0000937	0	0.75000E-05	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES	
L0000938	0	0.75000E-05	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES	

L0000939		0	0.75000E-05	478678.9	3715773.1	406.0	0.00	8.74	2.72
YES									
L0000940		0	0.75000E-05	478692.7	3715760.3	406.0	0.00	8.74	2.72
YES									
L0000941		0	0.75000E-05	478706.5	3715747.6	406.0	0.00	8.74	2.72
YES									
L0000942		0	0.75000E-05	478720.3	3715734.8	406.0	0.00	8.74	2.72
YES									
L0000943		0	0.75000E-05	478734.2	3715722.1	406.0	0.00	8.74	2.72
YES									
L0000944		0	0.75000E-05	478748.0	3715709.4	406.0	0.00	8.74	2.72
YES									
L0000945		0	0.75000E-05	478761.8	3715696.6	406.0	0.00	8.74	2.72
YES									
L0000946		0	0.75000E-05	478775.7	3715683.9	406.0	0.00	8.74	2.72
YES									
L0000947		0	0.75000E-05	478789.5	3715671.1	406.0	0.00	8.74	2.72
YES									

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000844 , L0000845 , L0000846 , L0000847 , L0000848 , L0000849 , L0000850 , L0000851 ,
	L0000852 , L0000853 , L0000854 , L0000855 , L0000856 , L0000857 , L0000858 , L0000859 ,
	L0000860 , L0000861 , L0000862 , L0000863 , L0000864 , L0000865 , L0000866 , L0000867 ,
	L0000868 , L0000869 , L0000870 , L0000871 , L0000872 , L0000873 , L0000874 , L0000875 ,
	L0000876 , L0000877 , L0000878 , L0000879 , L0000880 , L0000881 , L0000882 , L0000883 ,
	L0000884 , L0000885 , L0000886 , L0000887 , L0000888 , L0000889 , L0000890 , L0000891 ,
	L0000892 , L0000893 , L0000894 , L0000895 , L0000896 , L0000897 , L0000898 , L0000899 ,
	L0000900 , L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 ,
	L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 ,
	L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 ,
	L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , L0000929 , L0000930 , L0000931 ,
	L0000932 , L0000933 , L0000934 , L0000935 , L0000936 , L0000937 , L0000938 , L0000939 ,

L0000940 , L0000941 , L0000942 , L0000943 ,
L0000944 , L0000945 , L0000946 , L0000947 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:25:08

PAGE   8
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


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

   Surface file:   ..\elsi8.sfc
Met Version:  14134
   Profile file:   ..\elsi8.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3190                 Upper air station no.:
3190
                  Name: UNKNOWN                                     Name:
UNKNOWN
                  Year:   2008                                      Year:
2008

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0
BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
 08 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.54  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0  0.23
1.00   0.33  999.00  999.   -9.0  285.9    5.5
 08 01 01   1 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0  0.23
1.00   0.25  999.00  999.   -9.0  288.1    5.5
 08 01 01   1 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  289.9    5.5
 08 01 01   1 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  289.9    5.5
```

```
 08 01 01   1 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  292.0    5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0  0.23
1.00   0.27  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0  0.23
1.00   0.36  999.00  999.   -9.0  290.4    5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.63  999.00  999.   -9.0  288.8    5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  287.5    5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  286.4    5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  285.4    5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  282.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000844 , L0000845 , L0000846 , L0000847 , L0000848 ,
L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 ,
L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 ,
L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.03330	(10092718)	478691.64	3716202.66	0.03230	(10092718)
478707.50	3716202.08	0.03156	(10092718)	478722.13	3716203.48	0.03081	(10092718)
478738.32	3716207.75	0.02989	(09072619)	478755.66	3716207.18	0.02923	(09072619)
478771.82	3716215.80	0.02825	(09072619)	478786.68	3716223.30	0.02744	(12072419)
478802.87	3716229.99	0.02667	(12072419)	478813.58	3716240.83	0.02598	(12072419)
478826.70	3716247.92	0.02537	(12072419)	478839.28	3716257.16	0.02475	(12072419)
478853.06	3716264.52	0.02418	(12072419)	478860.94	3716277.90	0.02361	(12072419)
478873.93	3716286.22	0.02309	(12072419)	478893.91	3716296.70	0.02239	(12072419)
478639.90	3716237.60	0.03281	(12072419)	478661.72	3716250.85	0.03103	(12081019)
478677.78	3716255.94	0.03008	(12080919)	478692.90	3716252.46	0.02962	(12080919)
478708.56	3716251.39	0.02905	(12080919)	478724.49	3716252.33	0.02842	(12080919)

478743.90 3716254.87 0.02764 (12080919)
478760.50 3716263.70 0.02678 (12080919)
478776.16 3716271.33 0.02604 (12080919)
478807.33 3716292.55 0.02453 (12080919)
478818.04 3716304.27 0.02394 (12080919)
478827.44 3716316.65 0.02339 (12080919)
478837.15 3716329.19 0.02285 (12080919)
478848.66 3716343.35 0.02227 (12080919)
478864.52 3716345.21 0.02189 (12080919)
478877.21 3716336.06 0.02182 (12080919)
478687.09 3716357.64 0.02586 (12081019)
478675.98 3716337.58 0.02689 (12081019)
478673.14 3716319.49 0.02764 (12081019)
478675.54 3716299.43 0.02832 (12081019)
478700.17 3716289.41 0.02782 (12080919)
478720.01 3716292.02 0.02706 (12080919)
478736.14 3716295.73 0.02643 (12080919)
478751.18 3716303.14 0.02574 (12080919)
478788.45 3716328.21 0.02401 (12080919)
478797.61 3716340.63 0.02346 (12080919)
478808.94 3716350.88 0.02294 (12080919)
478815.48 3716366.57 0.02240 (12080919)
478825.73 3716377.91 0.02192 (12080919)
478827.76 3716403.05 0.02130 (12080919)
478848.25 3716397.38 0.02106 (12080919)
478869.18 3716398.47 0.02066 (12080919)
478885.75 3716399.12 0.02036 (12080919)
478711.57 3716349.20 0.02539 (12081019)
478731.63 3716355.74 0.02460 (12081019)
478744.71 3716368.82 0.02388 (12080919)
478760.18 3716379.28 0.02323 (12080919)
478772.39 3716393.02 0.02259 (12080919)
478784.82 3716409.59 0.02191 (12080919)
478886.03 3716447.93 0.01939 (12080919)
478866.54 3716446.91 0.01970 (12080919)
478847.82 3716449.22 0.01993 (12080919)
478828.84 3716449.99 0.02019 (12080919)
478829.86 3716485.89 0.01941 (12081019)
478828.84 3716534.37 0.01859 (12112818)
478847.56 3716535.39 0.01829 (12112818)
478848.59 3716488.71 0.01907 (08110202)
478867.82 3716484.87 0.01889 (12080919)
478885.01 3716481.79 0.01873 (12080919)
478865.00 3716539.24 0.01796 (12112818)
478883.98 3716540.01 0.01770 (08110202)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000844 , L0000845 , L0000846 , L0000847 , L0000848 ,
L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 ,
L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 ,
L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.02795	(09101924)	478691.64	3716202.66	0.02710	(09101924)
478707.50	3716202.08	0.02648	(09101924)	478722.13	3716203.48	0.02583	(09101924)
478738.32	3716207.75	0.02503	(09101924)	478755.66	3716207.18	0.02442	(09101924)
478771.82	3716215.80	0.02351	(09101924)	478786.68	3716223.30	0.02274	(09101924)
478802.87	3716229.99	0.02200	(09101924)	478813.58	3716240.83	0.02133	(09101924)
478826.70	3716247.92	0.02074	(09101924)	478839.28	3716257.16	0.02014	(09101924)
478853.06	3716264.52	0.01959	(09101924)	478860.94	3716277.90	0.01904	(09101924)
478873.93	3716286.22	0.01854	(09101924)	478893.91	3716296.70	0.01787	(09101924)
478639.90	3716237.60	0.02745	(09101924)	478661.72	3716250.85	0.02584	(09101924)
478677.78	3716255.94	0.02501	(09101924)	478692.90	3716252.46	0.02465	(09101924)
478708.56	3716251.39	0.02417	(09101924)	478724.49	3716252.33	0.02361	(09101924)

478743.90 3716254.87 0.02290 (09101924)
478760.50 3716263.70 0.02207 (09101924)
478776.16 3716271.33 0.02135 (09101924)
478807.33 3716292.55 0.01986 (09101924)
478818.04 3716304.27 0.01925 (09101924)
478827.44 3716316.65 0.01869 (09101924)
478837.15 3716329.19 0.01813 (09101924)
478848.66 3716343.35 0.01753 (09101924)
478864.52 3716345.21 0.01720 (09101924)
478877.21 3716336.06 0.01721 (09101924)
478687.09 3716357.64 0.02026 (09101924)
478675.98 3716337.58 0.02137 (09101924)
478673.14 3716319.49 0.02223 (09101924)
478675.54 3716299.43 0.02307 (09101924)
478700.17 3716289.41 0.02279 (09101924)
478720.01 3716292.02 0.02213 (09101924)
478736.14 3716295.73 0.02155 (09101924)
478751.18 3716303.14 0.02089 (09101924)
478788.45 3716328.21 0.01916 (09101924)
478797.61 3716340.63 0.01858 (09101924)
478808.94 3716350.88 0.01804 (09101924)
478815.48 3716366.57 0.01746 (09101924)
478825.73 3716377.91 0.01696 (09101924)
478827.76 3716403.05 0.01621 (09101924)
478848.25 3716397.38 0.01608 (09101924)
478869.18 3716398.47 0.01576 (09101924)
478885.75 3716399.12 0.01551 (09101924)
478711.57 3716349.20 0.02008 (09101924)
478731.63 3716355.74 0.01941 (09101924)
478744.71 3716368.82 0.01868 (09101924)
478760.18 3716379.28 0.01803 (09101924)
478772.39 3716393.02 0.01737 (09101924)
478784.82 3716409.59 0.01664 (09101924)
478886.03 3716447.93 0.01432 (09101924)
478866.54 3716446.91 0.01455 (09101924)
478847.82 3716449.22 0.01470 (09101924)
478828.84 3716449.99 0.01488 (09101924)
478829.86 3716485.89 0.01389 (09101924)
478828.84 3716534.37 0.01259 (09101924)
478847.56 3716535.39 0.01245 (09101924)
478848.59 3716488.71 0.01365 (09101924)
478867.82 3716484.87 0.01358 (09101924)
478885.01 3716481.79 0.01351 (09101924)
478865.00 3716539.24 0.01225 (09101924)
478883.98 3716540.01 0.01212 (09101924)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.03330	ON 10092718: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

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

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

ALL HIGH 1ST HIGH VALUE IS 0.02795 ON 09101924: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00) DC

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:25:08

PAGE  13
 **MODELOPTs:  NonDFAULT CONC                                      FLAT
FASTALL


 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (TOG GAS)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_TOG Gas\9239_TOG
Gas.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC FLAT  FASTALL
   AVERTIME 1 8 ANNUAL
   URBANOPT 2100516
   POLLUTID TOGGAS
   RUNORNOT RUN
   ERRORFIL "9239_TOG Gas.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00174
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ---------------------------------------------------------------------
   LOCATION L0000740     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000741     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000742     VOLUME   478135.765 3716327.756 0.0
```

```
   LOCATION L0000743     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0000744     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000745     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000746     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000747     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000748     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000749     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000750     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000751     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000752     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000753     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000754     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000755     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000756     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000757     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000758     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000759     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000760     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000761     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000762     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000763     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000764     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000765     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000766     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000767     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000768     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000769     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000770     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000771     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000772     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000773     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000774     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000775     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000776     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000777     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000778     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000779     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000780     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000781     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000782     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000783     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000784     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000785     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000786     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000787     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000788     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000789     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000790     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000791     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
```

```
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00174
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000792     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000793     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000794     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000795     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000796     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000797     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000798     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000799     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000800     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000801     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000802     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000803     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000804     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000805     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000806     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000807     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000808     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000809     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000810     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000811     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000812     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000813     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000814     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000815     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000816     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000817     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000818     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000819     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000820     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000821     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000822     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000823     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000824     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000825     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000826     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000827     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000828     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000829     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000830     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000831     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000832     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000833     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000834     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000835     VOLUME   478678.869 3715773.055 0.0
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   LOCATION L0000836     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0000837     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000838     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000839     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000840     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000841     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000842     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000843     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000740     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000741     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000742     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000743     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000744     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000745     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000746     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000747     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000748     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000749     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000750     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000751     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000752     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000753     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000754     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000755     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000756     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000757     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000758     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000759     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000760     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000761     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000762     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000763     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000764     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000765     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000766     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000767     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000768     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000769     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000770     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000771     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000772     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000773     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000774     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000775     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000776     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000777     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000778     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000779     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000780     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000781     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000782     0.0000334615      0.00      8.74      2.72
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   SRCPARAM L0000783     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000784     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000785     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000786     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000787     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000788     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000789     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000790     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000791     0.0000334615      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000792     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000793     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000794     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000795     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000796     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000797     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000798     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000799     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000800     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000801     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000802     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000803     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000804     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000805     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000806     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000807     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000808     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000809     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000810     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000811     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000812     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000813     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000814     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000815     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000816     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000817     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000818     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000819     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000820     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000821     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000822     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000823     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000824     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000825     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000826     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000827     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000828     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000829     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000830     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000831     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000832     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000833     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000834     0.0000334615      0.00      8.74      2.72
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   SRCPARAM L0000835     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000836     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000837     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000838     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000839     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000840     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000841     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000842     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000843     0.0000334615      0.00      8.74      2.72
** ---------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
```

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   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
```

```
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "9239_TOG GAS.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "9239_TOG GAS.AD\08H1GALL.PLT" 32
   PLOTFILE ANNUAL ALL "9239_TOG GAS.AD\AN00GALL.PLT" 33
   SUMMFILE "9239_TOG Gas.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:17:06

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR
     and Calculates ANNUAL Averages

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  TOGGAS

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_TOG Gas.err
 **File for Summary of Results:   9239_TOG Gas.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000740	0	0.33462E-04	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES	
L0000741	0	0.33462E-04	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES	
L0000742	0	0.33462E-04	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES	
L0000743	0	0.33462E-04	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES	
L0000744	0	0.33462E-04	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES	
L0000745	0	0.33462E-04	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES	
L0000746	0	0.33462E-04	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES	
L0000747	0	0.33462E-04	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES	
L0000748	0	0.33462E-04	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES	
L0000749	0	0.33462E-04	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES	
L0000750	0	0.33462E-04	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES	
L0000751	0	0.33462E-04	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES	
L0000752	0	0.33462E-04	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES	
L0000753	0	0.33462E-04	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES	
L0000754	0	0.33462E-04	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES	

L0000755	0	0.33462E-04	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000756	0	0.33462E-04	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000757	0	0.33462E-04	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000758	0	0.33462E-04	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000759	0	0.33462E-04	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000760	0	0.33462E-04	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000761	0	0.33462E-04	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000762	0	0.33462E-04	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000763	0	0.33462E-04	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000764	0	0.33462E-04	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000765	0	0.33462E-04	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000766	0	0.33462E-04	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000767	0	0.33462E-04	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000768	0	0.33462E-04	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000769	0	0.33462E-04	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000770	0	0.33462E-04	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000771	0	0.33462E-04	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000772	0	0.33462E-04	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000773	0	0.33462E-04	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000774	0	0.33462E-04	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000775	0	0.33462E-04	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000776	0	0.33462E-04	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000777	0	0.33462E-04	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000778	0	0.33462E-04	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000779	0	0.33462E-04	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000780	0	0.33462E-04	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES
L0000781	0	0.33462E-04	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES
L0000782	0	0.33462E-04	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES
L0000783	0	0.33462E-04	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES
L0000784	0	0.33462E-04	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES
L0000785	0	0.33462E-04	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES
L0000786	0	0.33462E-04	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES
L0000787	0	0.33462E-04	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES
L0000788	0	0.33462E-04	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES
L0000789	0	0.33462E-04	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES
L0000790	0	0.33462E-04	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES
L0000791	0	0.33462E-04	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES
L0000792	0	0.33462E-04	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES
L0000793	0	0.33462E-04	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES
L0000794	0	0.33462E-04	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES

L0000795	0	0.33462E-04	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000796	0	0.33462E-04	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000797	0	0.33462E-04	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000798	0	0.33462E-04	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000799	0	0.33462E-04	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000800	0	0.33462E-04	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000801	0	0.33462E-04	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000802	0	0.33462E-04	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000803	0	0.33462E-04	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000804	0	0.33462E-04	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000805	0	0.33462E-04	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000806	0	0.33462E-04	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000807	0	0.33462E-04	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000808	0	0.33462E-04	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000809	0	0.33462E-04	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000810	0	0.33462E-04	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000811	0	0.33462E-04	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000812	0	0.33462E-04	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000813	0	0.33462E-04	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000814	0	0.33462E-04	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000815	0	0.33462E-04	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000816	0	0.33462E-04	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000817	0	0.33462E-04	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000818	0	0.33462E-04	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000819	0	0.33462E-04	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000820	0	0.33462E-04	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0000821	0	0.33462E-04	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0000822	0	0.33462E-04	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0000823	0	0.33462E-04	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0000824	0	0.33462E-04	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0000825	0	0.33462E-04	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0000826	0	0.33462E-04	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0000827	0	0.33462E-04	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0000828	0	0.33462E-04	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0000829	0	0.33462E-04	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0000830	0	0.33462E-04	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0000831	0	0.33462E-04	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0000832	0	0.33462E-04	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0000833	0	0.33462E-04	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0000834	0	0.33462E-04	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0000835		0	0.33462E-04	478678.9	3715773.1	406.0	0.00	8.74	2.72
YES									
L0000836		0	0.33462E-04	478692.7	3715760.3	406.0	0.00	8.74	2.72
YES									
L0000837		0	0.33462E-04	478706.5	3715747.6	406.0	0.00	8.74	2.72
YES									
L0000838		0	0.33462E-04	478720.3	3715734.8	406.0	0.00	8.74	2.72
YES									
L0000839		0	0.33462E-04	478734.2	3715722.1	406.0	0.00	8.74	2.72
YES									
L0000840		0	0.33462E-04	478748.0	3715709.4	406.0	0.00	8.74	2.72
YES									
L0000841		0	0.33462E-04	478761.8	3715696.6	406.0	0.00	8.74	2.72
YES									
L0000842		0	0.33462E-04	478775.7	3715683.9	406.0	0.00	8.74	2.72
YES									
L0000843		0	0.33462E-04	478789.5	3715671.1	406.0	0.00	8.74	2.72
YES									

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 ,
	L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 ,
	L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 ,
	L0000764 , L0000765 , L0000766 , L0000767 , L0000768 , L0000769 , L0000770 , L0000771 ,
	L0000772 , L0000773 , L0000774 , L0000775 , L0000776 , L0000777 , L0000778 , L0000779 ,
	L0000780 , L0000781 , L0000782 , L0000783 , L0000784 , L0000785 , L0000786 , L0000787 ,
	L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 , L0000794 , L0000795 ,
	L0000796 , L0000797 , L0000798 , L0000799 , L0000800 , L0000801 , L0000802 , L0000803 ,
	L0000804 , L0000805 , L0000806 , L0000807 , L0000808 , L0000809 , L0000810 , L0000811 ,
	L0000812 , L0000813 , L0000814 , L0000815 , L0000816 , L0000817 , L0000818 , L0000819 ,
	L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 , L0000827 ,
	L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , L0000834 , L0000835 ,

L0000836 , L0000837 , L0000838 , L0000839 ,
L0000840 , L0000841 , L0000842 , L0000843 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

```
     ( 478677.1, 3716198.7,     406.0,     406.0,       0.0);         (
478691.6, 3716202.7,     406.0,     406.0,       0.0);
     ( 478707.5, 3716202.1,     406.0,     406.0,       0.0);         (
478722.1, 3716203.5,     406.0,     406.0,       0.0);
     ( 478738.3, 3716207.8,     406.0,     406.0,       0.0);         (
478755.7, 3716207.2,     406.0,     406.0,       0.0);
     ( 478771.8, 3716215.8,     406.0,     406.0,       0.0);         (
478786.7, 3716223.3,     406.0,     406.0,       0.0);
     ( 478802.9, 3716230.0,     406.0,     406.0,       0.0);         (
478813.6, 3716240.8,     406.0,     406.0,       0.0);
     ( 478826.7, 3716247.9,     406.0,     406.0,       0.0);         (
478839.3, 3716257.2,     406.0,     406.0,       0.0);
     ( 478853.1, 3716264.5,     406.0,     406.0,       0.0);         (
478860.9, 3716277.9,     406.0,     406.0,       0.0);
     ( 478873.9, 3716286.2,     406.0,     406.0,       0.0);         (
478893.9, 3716296.7,     406.0,     406.0,       0.0);
     ( 478639.9, 3716237.6,     406.0,     406.0,       0.0);         (
478661.7, 3716250.8,     406.0,     406.0,       0.0);
     ( 478677.8, 3716255.9,     406.0,     406.0,       0.0);         (
478692.9, 3716252.5,     406.0,     406.0,       0.0);
     ( 478708.6, 3716251.4,     406.0,     406.0,       0.0);         (
478724.5, 3716252.3,     406.0,     406.0,       0.0);
     ( 478743.9, 3716254.9,     406.0,     406.0,       0.0);         (
478760.5, 3716263.7,     406.0,     406.0,       0.0);
     ( 478776.2, 3716271.3,     406.0,     406.0,       0.0);         (
478807.3, 3716292.5,     406.0,     406.0,       0.0);
     ( 478818.0, 3716304.3,     406.0,     406.0,       0.0);         (
478827.4, 3716316.6,     406.0,     406.0,       0.0);
     ( 478837.1, 3716329.2,     406.0,     406.0,       0.0);         (
478848.7, 3716343.3,     406.0,     406.0,       0.0);
     ( 478864.5, 3716345.2,     406.0,     406.0,       0.0);         (
478877.2, 3716336.1,     406.0,     406.0,       0.0);
     ( 478687.1, 3716357.6,     406.0,     406.0,       0.0);         (
478676.0, 3716337.6,     406.0,     406.0,       0.0);
     ( 478673.1, 3716319.5,     406.0,     406.0,       0.0);         (
478675.5, 3716299.4,     406.0,     406.0,       0.0);
     ( 478700.2, 3716289.4,     406.0,     406.0,       0.0);         (
478720.0, 3716292.0,     406.0,     406.0,       0.0);
```

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

Surface file: ..\elsi8.sfc
Met Version: 14134
Profile file: ..\elsi8.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3190 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2008 Year: 2008

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
08	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	284.2	5.5
08	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.1	5.5
08	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.1	5.5
08	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.8	5.5
08	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.8	5.5
08	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.8	5.5
08	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.1	5.5
08	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	0.54	999.00	999.	-9.0	283.8	5.5
08	01	01	1	09	27.2	-9.000	-9.000	-9.000	60.	-999.	-99999.0	0.23	1.00	0.33	999.00	999.	-9.0	285.9	5.5
08	01	01	1	10	74.6	-9.000	-9.000	-9.000	157.	-999.	-99999.0	0.23	1.00	0.25	999.00	999.	-9.0	288.1	5.5
08	01	01	1	11	107.4	-9.000	-9.000	-9.000	375.	-999.	-99999.0	0.23	1.00	0.23	999.00	999.	-9.0	289.9	5.5
08	01	01	1	12	122.7	-9.000	-9.000	-9.000	578.	-999.	-99999.0	0.23	1.00	0.22	999.00	999.	-9.0	289.9	5.5

```
 08 01 01   1 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  292.0    5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0  0.23
1.00   0.27  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0  0.23
1.00   0.36  999.00  999.   -9.0  290.4    5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.63  999.00  999.   -9.0  288.8    5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  287.5    5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  286.4    5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  285.4    5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  282.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
478677.13	3716198.67	0.03475	478691.64	3716202.66	0.03294
478707.50	3716202.08	0.03157	478722.13	3716203.48	0.03021
478738.32	3716207.75	0.02861	478755.66	3716207.18	0.02738
478771.82	3716215.80	0.02572	478786.68	3716223.30	0.02435
478802.87	3716229.99	0.02307	478813.58	3716240.83	0.02197
478826.70	3716247.92	0.02100	478839.28	3716257.16	0.02003
478853.06	3716264.52	0.01916	478860.94	3716277.90	0.01836
478873.93	3716286.22	0.01759	478893.91	3716296.70	0.01658
478639.90	3716237.60	0.03425	478661.72	3716250.85	0.03102
478677.78	3716255.94	0.02933	478692.90	3716252.46	0.02851
478708.56	3716251.39	0.02749	478724.49	3716252.33	0.02638

478743.90	3716254.87	0.02501	478760.50	3716263.70	0.02355
478776.16	3716271.33	0.02233	478807.33	3716292.55	0.01993
478818.04	3716304.27	0.01902	478827.44	3716316.65	0.01820
478837.15	3716329.19	0.01742	478848.66	3716343.35	0.01658
478864.52	3716345.21	0.01605	478877.21	3716336.06	0.01594
478687.09	3716357.64	0.02196	478675.98	3716337.58	0.02365
478673.14	3716319.49	0.02495	478675.54	3716299.43	0.02617
478700.17	3716289.41	0.02539	478720.01	3716292.02	0.02411
478736.14	3716295.73	0.02305	478751.18	3716303.14	0.02192
478788.45	3716328.21	0.01919	478797.61	3716340.63	0.01837
478808.94	3716350.88	0.01760	478815.48	3716366.57	0.01684
478825.73	3716377.91	0.01617	478827.76	3716403.05	0.01535
478848.25	3716397.38	0.01498	478869.18	3716398.47	0.01444
478885.75	3716399.12	0.01403	478711.57	3716349.20	0.02134
478731.63	3716355.74	0.02020	478744.71	3716368.82	0.01911
478760.18	3716379.28	0.01815	478772.39	3716393.02	0.01724
478784.82	3716409.59	0.01629	478886.03	3716447.93	0.01287
478866.54	3716446.91	0.01329	478847.82	3716449.22	0.01362
478828.84	3716449.99	0.01400	478829.86	3716485.89	0.01307
478828.84	3716534.37	0.01195	478847.56	3716535.39	0.01164
478848.59	3716488.71	0.01265	478867.82	3716484.87	0.01239
478885.01	3716481.79	0.01216	478865.00	3716539.24	0.01130
478883.98	3716540.01	0.01101			

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 ,
L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 ,
L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 ,
L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.14857	(10092718)	478691.64	3716202.66	0.14409	(10092718)
478707.50	3716202.08	0.14081	(10092718)	478722.13	3716203.48	0.13747	(10092718)
478738.32	3716207.75	0.13337	(09072619)	478755.66	3716207.18	0.13041	(09072619)
478771.82	3716215.80	0.12605	(09072619)	478786.68	3716223.30	0.12241	(12072419)
478802.87	3716229.99	0.11900	(12072419)	478813.58	3716240.83	0.11589	(12072419)
478826.70	3716247.92	0.11320	(12072419)	478839.28	3716257.16	0.11042	(12072419)
478853.06	3716264.52	0.10790	(12072419)	478860.94	3716277.90	0.10534	(12072419)
478873.93	3716286.22	0.10301	(12072419)	478893.91	3716296.70	0.09991	(12072419)
478639.90	3716237.60	0.14640	(12072419)	478661.72	3716250.85	0.13845	(12081019)
478677.78	3716255.94	0.13421	(12080919)	478692.90	3716252.46	0.13215	(12080919)
478708.56	3716251.39	0.12962	(12080919)	478724.49	3716252.33	0.12679	(12080919)

478743.90 3716254.87 0.12331 (12080919)
478760.50 3716263.70 0.11947 (12080919)
478776.16 3716271.33 0.11619 (12080919)
478807.33 3716292.55 0.10945 (12080919)
478818.04 3716304.27 0.10680 (12080919)
478827.44 3716316.65 0.10435 (12080919)
478837.15 3716329.19 0.10196 (12080919)
478848.66 3716343.35 0.09935 (12080919)
478864.52 3716345.21 0.09767 (12080919)
478877.21 3716336.06 0.09737 (12080919)
478687.09 3716357.64 0.11538 (12081019)
478675.98 3716337.58 0.11996 (12081019)
478673.14 3716319.49 0.12332 (12081019)
478675.54 3716299.43 0.12635 (12081019)
478700.17 3716289.41 0.12411 (12080919)
478720.01 3716292.02 0.12074 (12080919)
478736.14 3716295.73 0.11791 (12080919)
478751.18 3716303.14 0.11484 (12080919)
478788.45 3716328.21 0.10712 (12080919)
478797.61 3716340.63 0.10465 (12080919)
478808.94 3716350.88 0.10233 (12080919)
478815.48 3716366.57 0.09996 (12080919)
478825.73 3716377.91 0.09782 (12080919)
478827.76 3716403.05 0.09501 (12080919)
478848.25 3716397.38 0.09395 (12080919)
478869.18 3716398.47 0.09220 (12080919)
478885.75 3716399.12 0.09085 (12080919)
478711.57 3716349.20 0.11326 (12081019)
478731.63 3716355.74 0.10976 (12081019)
478744.71 3716368.82 0.10653 (12080919)
478760.18 3716379.28 0.10363 (12080919)
478772.39 3716393.02 0.10080 (12080919)
478784.82 3716409.59 0.09776 (12080919)
478886.03 3716447.93 0.08652 (12080919)
478866.54 3716446.91 0.08789 (12080919)
478847.82 3716449.22 0.08890 (12080919)
478828.84 3716449.99 0.09008 (12080919)
478829.86 3716485.89 0.08660 (12081019)
478828.84 3716534.37 0.08295 (12112818)
478847.56 3716535.39 0.08159 (12112818)
478848.59 3716488.71 0.08508 (08110202)
478867.82 3716484.87 0.08427 (12080919)
478885.01 3716481.79 0.08358 (12080919)
478865.00 3716539.24 0.08014 (12112818)
478883.98 3716540.01 0.07898 (08110202)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.12471	(09101924)	478691.64	3716202.66	0.12093	(09101924)
478707.50	3716202.08	0.11814	(09101924)	478722.13	3716203.48	0.11526	(09101924)
478738.32	3716207.75	0.11167	(09101924)	478755.66	3716207.18	0.10895	(09101924)
478771.82	3716215.80	0.10488	(09101924)	478786.68	3716223.30	0.10144	(09101924)
478802.87	3716229.99	0.09815	(09101924)	478813.58	3716240.83	0.09515	(09101924)
478826.70	3716247.92	0.09255	(09101924)	478839.28	3716257.16	0.08986	(09101924)
478853.06	3716264.52	0.08741	(09101924)	478860.94	3716277.90	0.08497	(09101924)
478873.93	3716286.22	0.08272	(09101924)	478893.91	3716296.70	0.07972	(09101924)
478639.90	3716237.60	0.12245	(09101924)	478661.72	3716250.85	0.11530	(09101924)
478677.78	3716255.94	0.11157	(09101924)	478692.90	3716252.46	0.10996	(09101924)
478708.56	3716251.39	0.10783	(09101924)	478724.49	3716252.33	0.10535	(09101924)

478743.90 3716254.87 0.10217 (09101924)
478760.50 3716263.70 0.09846 (09101924)
478776.16 3716271.33 0.09526 (09101924)
478807.33 3716292.55 0.08859 (09101924)
478818.04 3716304.27 0.08590 (09101924)
478827.44 3716316.65 0.08337 (09101924)
478837.15 3716329.19 0.08090 (09101924)
478848.66 3716343.35 0.07820 (09101924)
478864.52 3716345.21 0.07673 (09101924)
478877.21 3716336.06 0.07678 (09101924)
478687.09 3716357.64 0.09041 (09101924)
478675.98 3716337.58 0.09533 (09101924)
478673.14 3716319.49 0.09920 (09101924)
478675.54 3716299.43 0.10291 (09101924)
478700.17 3716289.41 0.10170 (09101924)
478720.01 3716292.02 0.09874 (09101924)
478736.14 3716295.73 0.09615 (09101924)
478751.18 3716303.14 0.09318 (09101924)
478788.45 3716328.21 0.08548 (09101924)
478797.61 3716340.63 0.08288 (09101924)
478808.94 3716350.88 0.08050 (09101924)
478815.48 3716366.57 0.07789 (09101924)
478825.73 3716377.91 0.07566 (09101924)
478827.76 3716403.05 0.07234 (09101924)
478848.25 3716397.38 0.07173 (09101924)
478869.18 3716398.47 0.07029 (09101924)
478885.75 3716399.12 0.06922 (09101924)
478711.57 3716349.20 0.08960 (09101924)
478731.63 3716355.74 0.08661 (09101924)
478744.71 3716368.82 0.08334 (09101924)
478760.18 3716379.28 0.08045 (09101924)
478772.39 3716393.02 0.07748 (09101924)
478784.82 3716409.59 0.07426 (09101924)
478886.03 3716447.93 0.06389 (09101924)
478866.54 3716446.91 0.06493 (09101924)
478847.82 3716449.22 0.06557 (09101924)
478828.84 3716449.99 0.06641 (09101924)
478829.86 3716485.89 0.06195 (09101924)
478828.84 3716534.37 0.05617 (09101924)
478847.56 3716535.39 0.05555 (09101924)
478848.59 3716488.71 0.06089 (09101924)
478867.82 3716484.87 0.06059 (09101924)
478885.01 3716481.79 0.06026 (09101924)
478865.00 3716539.24 0.05466 (09101924)
478883.98 3716540.01 0.05409 (09101924)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

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

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

ALL       1ST HIGHEST VALUE IS       0.03475 AT (  478677.13, 3716198.67,   406.00,   406.00,    0.00)  DC
          2ND HIGHEST VALUE IS       0.03425 AT (  478639.90, 3716237.60,   406.00,   406.00,    0.00)  DC
          3RD HIGHEST VALUE IS       0.03294 AT (  478691.64, 3716202.66,   406.00,   406.00,    0.00)  DC
          4TH HIGHEST VALUE IS       0.03157 AT (  478707.50, 3716202.08,   406.00,   406.00,    0.00)  DC
          5TH HIGHEST VALUE IS       0.03102 AT (  478661.72, 3716250.85,   406.00,   406.00,    0.00)  DC
          6TH HIGHEST VALUE IS       0.03021 AT (  478722.13, 3716203.48,   406.00,   406.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.02933 AT (  478677.78, 3716255.94,   406.00,   406.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.02861 AT (  478738.32, 3716207.75,   406.00,   406.00,    0.00)  DC
          9TH HIGHEST VALUE IS       0.02851 AT (  478692.90, 3716252.46,   406.00,   406.00,    0.00)  DC
         10TH HIGHEST VALUE IS       0.02749 AT (  478708.56, 3716251.39,   406.00,   406.00,    0.00)  DC

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL HIGH 1ST HIGH VALUE IS	0.14857	ON 10092718:	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.12471	ON 09101924: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:17:06

PAGE  15
 **MODELOPTs:  NonDFAULT CONC                                      FLAT
FASTALL


 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

TTM No. 36497

MOBILE SOURCE AIR TOXIC AND CRITERIA POLLUTANT HEALTH RISK ASSESSMENT

CITY OF WILDOMAR

PREPARED BY:

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JULY 31, 2014

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LIST OF ABBREVIATED TERMS

(1)	Reference
AADT	Annual Average Daily Traffic Volumes
ARB	Air Resources Board
CAAQS	California Ambient Air Quality Standards
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
CO	Carbon Monoxide
CPF	Cancer Potency Factor
EPA	Environmental Protection Agency
HRA	Health Risk Assessment
LDA	Light Duty Auto
LDT	Light Duty Truck
LHD	Light Heavy Duty
MCY	Motorcycle
MDV	Medium Duty Vehicle
NO2	Nitrogen Dioxide
OBUS	Other Bus
OLM	Ozone Limiting
PM10	Particulate Matter 10 microns in diameter or less
PM2.5	Particulate Matter 2.5 microns in diameter or less
PPM	Parts per Million
Project	TTM No. 36497
PVMRM	Plume Volume Molar Ratio Methods
REL	Reference Exposure Level
RME	Reasonable Maximum Exposure
SBUS	School Bus
SCAQMD	South Coast Air Quality management District
TACs	Toxic Air Contaminants
UBUS	Urban Bus
URF	Unit Risk Factor
UTM	Universal Traverse Mercator

1 INTRODUCTION

In 2005, the California Air Resources Board (ARB) promulgated an advisory recommendation to avoid setting sensitive land uses within 500 feet of a freeway, urban roads with 100,000 vehicles per day or rural roads with 50,000 vehicles per day. According to the ARB, the increased cancer risk is 300 to 1,700 per million within this domain. The strongest association of traffic related emissions with adverse health outcomes was seen within 300 feet of roadways with high truck densities. Notwithstanding, the ARB notes that a site specific analysis would be required to determine the actual risk near a particular land use and should consider factors such as prevailing wind direction, local topography and climate.

Additionally, the California Code of Regulations, Title 14, Section 15126.2(a) recommends that significant environmental effects of a project be assessed when a project brings development and people into an affected area (1), although case law has held that CEQA requires an analysis of the project's impact on the environment, rather than the environment's impact on the project.. Nevertheless, for the proposed project, adjoining freeway emissions are a potential concern and relevant thresholds and standards exist to determine the impact of vehicular emissions on an exposed population. As such, a health risk assessment was prepared to assess the impact of these emissions on individuals residing at the proposed project site.

In consideration of the above referenced requirement, the assessment and dispersion modeling methodologies used in the preparation of this report were composed of all relevant and appropriate procedures presented by the U.S. Environmental Protection Agency, California Environmental Protection Agency and South Coast Air Quality Management District (SCAQMD). The methodologies and assumptions offered under this regulatory guidance were used to ensure that the assessment effectively quantified residential exposures associated with the generation of contaminant emissions from adjacent mobile source activity.

This report summarizes the protocol used to evaluate contaminant exposures and presents the results of the health risk assessment (HRA) prepared by Urban Crossroads, Inc., for the proposed TTM No. 36497 project (referred to as “Project). It should be noted that the Project actually places residences further than 500 feet from the freeway mainline, nevertheless this analysis is being provided for purposes of full disclosure.

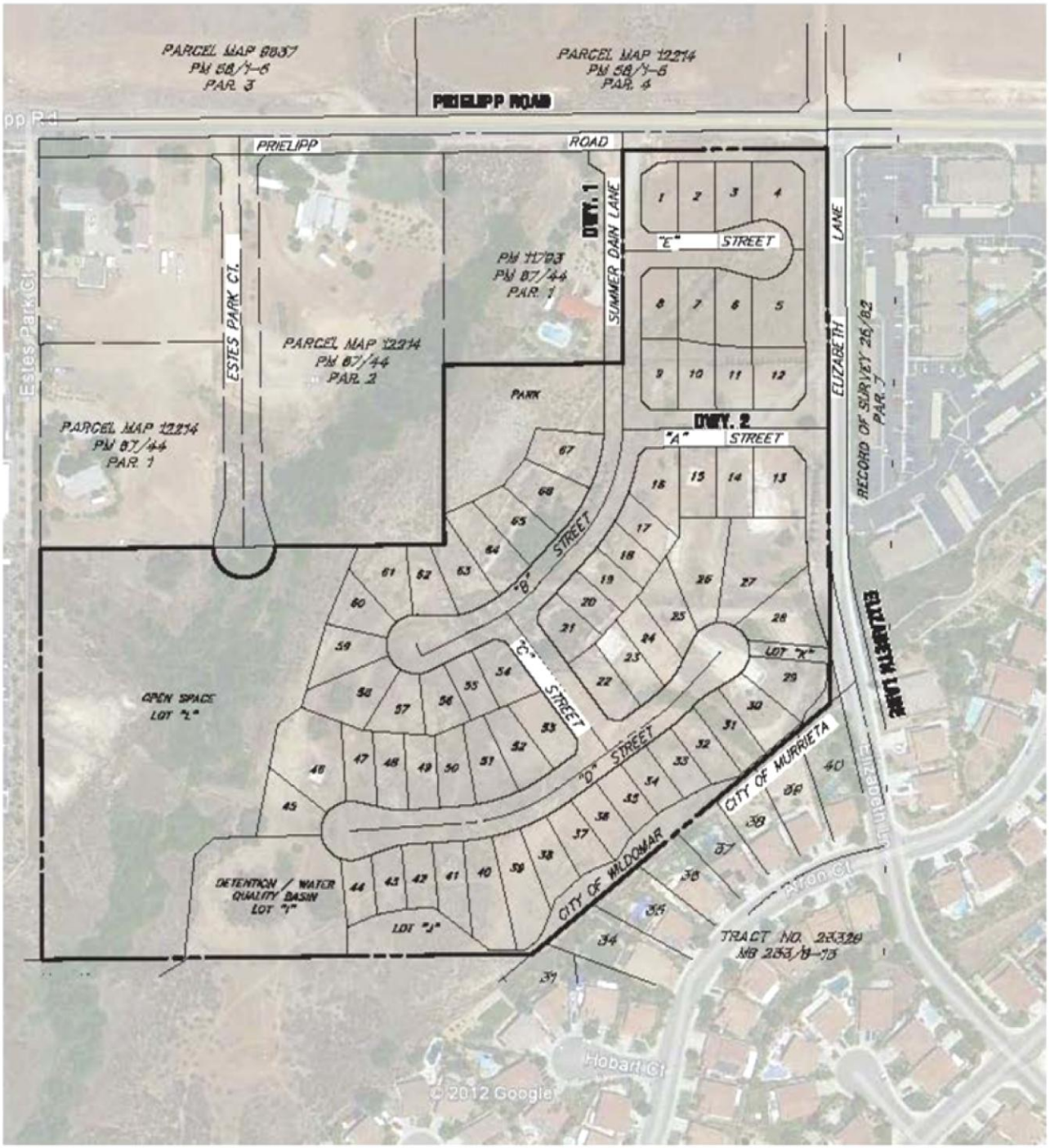
1.1 PROJECT LOCATION

The proposed Project is located at the southwest corner of Prielipp Road and Elizabeth Lane in the City of Wildomar.

1.2 PROJECT DESCRIPTION

The Project is proposed to consist of the development of up to 67 Single family lots as shown on Exhibit 1-A.

EXHIBIT 1-A: CONCEPTUAL SITE PLAN



Source: Parkside (TM 36497) Traffic Impact Analysis, Trames Solutions Inc, 2013

1.3 EXISTING LAND USES

The Project site is currently vacant, with residential and commercial land uses in its immediate vicinity.

1.4 SUMMARY OF FINDINGS

For carcinogenic exposures, the summation of risk for the maximum exposed residential receptor totaled 3.00E-06 (3 in one million) for the 30 year and 9.01E-07 (0.90 in one million) for the 9 year exposure scenarios. In comparison to the threshold level of ten in one million, carcinogenic risks will not exceed the applicable thresholds for both the 30 and 9 year exposure scenario. Therefore, carcinogenic exposures are calculated to be within acceptable limits and are less than significant.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both the 30 year and 9 year exposure scenarios. For acute exposures (i.e., 1 and 8-hour), the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 1.73 μg/m3 and 0.91 μg/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 μg/m3 and 1.0 μg/m3, respectively. For PM2.5, a maximum 24-hour average concentration of 0.74 μg/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5 μg/m3.

The maximum modeled 1-hour average concentration for CO of 0.04 parts per million (ppm) (44.51 μg/m3), when added to an existing background concentration of 2.7 ppm, would equal a total Project concentration of 2.74 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.03 ppm (37.36 μg/m3), when added to an existing background level of 0.70 ppm, would equal a total Project concentration of 0.73 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one hour concentration of 0.003 ppm (5.47 μg/m3) was predicted. This concentration, when added to a background concentration of 0.050 ppm, would equal a total Project concentration of 0.053 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who access and utilize outdoor amenities.

1.5 MITIGATION MEASURES

No significant impacts would occur, thus no mitigation is required.

2 SOURCE IDENTIFICATION

The California Department of Transportation (Caltrans), Traffic and Vehicle Data Systems Unit collects and maintains traffic volume counts for vehicles traversing the California state highway system. Discrete data sets are available for main highway segments and adjoining freeway ramp volumes. Table 2-1 presents the annual average daily traffic volumes (AADT) for the roadway segments considered in the assessment. Data for mainline AADTs on Route 15 for "back AADTs" was obtained from the Caltrans Traffic and Vehicle Data Systems Unit (4).

TABLE 2-1 FREEWAY TRAFFIC VOLUMES

Roadway Segment	Postmile	Annual Average Daily Traffic (AADT)
Route 15	13.635	122,000

3 SOURCE CHARACTERIZATION

In urban communities, vehicle emissions contribute significantly to localized concentrations of air contaminants. Typically, emissions generated from these sources are characterized by vehicle mix, the rate pollutants are generated during the course of travel and the number of vehicles traversing the roadway network.

Currently, emission factors are generated from a series of computer based programs to produce a composite emission rate for vehicles traveling at various speeds within a defined geographical area or along a discrete roadway segment. To account for the emission standards imposed on the California fleet, the ARB has developed the EMFAC2011 emission factor model. EMFAC2011 was utilized to identify pollutant emission rates for total organic gases (TOG), diesel particulates, particulates (PM10 and PM2.5), carbon monoxide (CO) and nitrogen oxide (NOx) compounds (5). To produce a representative vehicle fleet distribution, the assessment utilized ARB's Riverside's County population estimates for the 2035 calendar year. This approach provides an estimate of vehicle mix associated with operational profiles at the link or intersection level. Table 3-1 lists the identified fleet mix considered in the assessment.

Based upon the freeway traffic volumes and population profiles noted above, discrete traffic counts were identified for each roadway segment. Diesel vehicles account for 4.59 percent of the on-road mobile fleet. For chronic (long term) and acute (e.g., 1-hour) exposures, AADT values were averaged to produce representative hourly traffic volumes. Table 3-2 presents the hourly traffic volumes considered in the assessment.

TABLE 3-1: VEHICLE FLEET MIX PROFILE

Vehicle class	Riverside County		
	Fuel	Population	Percent
LDA	Diesel	3406	0.14
LDA	Gas	1066571	45.06
LDT1	Diesel	218	0.01
LDT1	Gas	168279	7.11
LDT2	Diesel	211	0.01
LDT2	Gas	420165	17.75
LHD1	Diesel	37466	1.58
LHD1	Gas	63985	2.70
LHD2	Diesel	11287	0.48
LHD2	Gas	5472	0.23
MCY	Gas	43045	1.82
MDV	Diesel	384	0.02
MDV	Gas	453630	19.17
MH	Diesel	7800	0.33
MH	Gas	31534	1.33
T6	Diesel	13217	0.56
T6	Gas	3297	0.14
T7	Diesel	32892	1.38
T7	Gas	402	0.02
OBUS	Diesel	525	0.02
OBUS	Gas	808	0.03
SBUS	Diesel	981	0.04
SBUS	Gas	515	0.02
UBUS	Diesel	504	0.02
UBUS	Gas	459	0.02

Note: Vehicle category descriptions can be found on the California Air Resources Board website at http://www.arb.ca.gov/msei/modeling.htm.

TABLE 3-2: HOURLY FREEWAY TRAFFIC VOLUMES

Roadway Segment	Average Traffic Volume		
	All	Gas	Diesel
Route 15	5,083.3	4,850.1	233.2

Posted route speeds were assumed for vehicles traversing the main highway link (Route 15). Emissions associated with acceleration and deceleration (i.e., on/off ramps) were based upon vehicle speeds of 45 and 5 miles per hour, respectively. These values were subsequently adjusted utilizing the modal algorithms presented in the California Line Source Dispersion Model (6).

For particulates (PM10 and PM2.5), emissions were quantified through the reentrainment of paved roadway dust. The predictive emission equation developed by the U.S. Environmental Protection Agency (AP-42, Section 13.2.1) was utilized to generate particulate source strength (7). To account for the mass rate of emissions entrained from the roadway surface, the contribution from exhaust, break and tire wear were added to the AP-42 emission factor equation.

A list of compounds associated with mobile source emissions is presented in Table 3-3. Appendix 3.1 presents the on-road emission rate calculation worksheets for the freeway segments considered in the assessment.

TABLE 3-3: COMPUNDS EMITTED FROM ON ROAD MOBILE SOURCE ACTIVITY

Source	Pollutant
State Route 15	Benzene Formaldehyde 1,3-Butadiene Acetaldehyde Acrolein Diesel Particulates Reentrained Particulates (PM10, PM2.5) Carbon Monoxide Nitrogen Dioxide

4 EXPOSURE QUANTIFICATION

In order to assess the impact of emitted compounds on individuals who reside at the proposed apartment complex, air quality modeling utilizing the AMS/EPA Regulatory Model AERMOD was performed to assess the downwind extent of mobile source emissions located within a ¼ mile radius of the project site. AERMOD's air dispersion algorithms are based upon a planetary boundary layer turbulence structure and scaling concepts, including the treatment of surface and elevated sources in simple and complex terrain.

The model offers additional flexibility by allowing the user to assign initial vertical and lateral dispersion parameters for sources representative of a localized mobile fleet. For this assessment, the volume source algorithm was utilized to model the emissions generated from on-road mobile source activity. Although the freeway is located predominantly below grade, the assessment followed guidance promulgated by the U.S. Environmental Protection Agency (U.S. EPA, 2009) whereby the model was programmed to assume flat, level terrain (8). This was done to avoid underestimating pollutant concentrations for conditions involving low-level, non-buoyant sources in up-sloping terrain. Notwithstanding, to account for the discrepancy in terrain elevation, vertical (sigma z) dispersion parameters were developed for each source location by approximating mixing zone residence time and quantifying the initial vertical term as performed in the California Line Source Dispersion Model Caline3 (6). The horizontal (sigma y) parameters were generated by dividing the source separation distance by a standard deviation of 2.15.

For PM10 and PM2.5, plume depletion due to dry removal mechanisms was assumed (i.e., DRYDPLT). Entrained or fugitive PM10 emissions were separated into three aerodynamic diameter sizes of 1.0, 2.5 and 10 microns (µm) with weight fractions of 0.0787, 0.1292, and 0.7922, respectively. Fugitive PM2.5 emissions were separated into two particle sizes of 1.0 and 2.5 µm with corresponding weight fractions of 0.3785 and 0.6215. Diesel particulate emissions were assigned particle size bins of 2.5 and 10 µm with corresponding weight fractions of 0.92 and 0.08. A particle density of 2.3 grams per cubic centimeter was assigned to all size bins.

Air dispersion models require additional input parameters including pollutant emission data and local meteorology. Due to the their sensitivity to individual meteorological parameters such as wind speed and direction, the U.S. Environmental Protection Agency recommends that meteorological data used as input into dispersion models be selected on the basis of relative spatial and temporal conditions that exist in the area of concern. In response to this recommendation, the nearest meteorological data available from the SCAQMD Lake Elsinore station (Source Receptor Area 25), which is located less than 8.50 miles northwest of the project site, was used to represent local weather conditions and prevailing winds. Five years (2008-2012) of available AERMOD meteorological data was utilized in the modeling.

The modeling analysis also considered the spatial distribution of mobile source activity traversing the freeway in relation to the proposed site. To accommodate a Cartesian grid format, direction dependent calculations were obtained by identifying the universal transverse mercator (UTM) coordinates for each volume source location. On-site receptors were placed to

provide coverage across the identified project boundary. A graphical representation of the source-receptor grid network is presented in Exhibit 4-A.

A dispersion model input summary table is provided in Appendix 3.3. A complete listing of model input/output files are provided in electronic format in Appendix 3.4.

EXHIBIT 4-A: SOURCE RECEPTOR GRID NETWORK

5 RISK CHARACTERIZATION

5.1 CARCINOGENIC CHEMICAL RISK

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the State of California has established a threshold of one in one hundred thousand (or ten in one million) (1.0E-05) as a level posing no significant risk for exposures to carcinogens regulated under the Safe Drinking Water and Toxic Enforcement Act (Proposition 65). This threshold is also consistent with the maximum incremental cancer risk established by the SCAQMD for projects prepared under the auspices of the California Environmental Quality Act (CEQA). The SCAQMD *CEQA Air Quality Handbook* (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a health risk assessment shows an increased risk of greater than ten in one million(9).

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter (μg/m3) over a 70 year lifetime. The URFs utilized in the assessment and corresponding cancer potency factor were obtained from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* (10).

To effectively quantify dose, the procedure requires the incorporation of several discrete exposure variates. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)-1 to derive the cancer risk estimate. Therefore, to assess exposures associated with the proposed residential population, the following dose algorithm was utilized.

$$CDI = (Cair \times EF \times ED \times IR) / (BW \times AT)$$

Where:

CDI = chronic daily intake (mg/kg/day)

Cair = concentration of contaminant in air (mg/m3)

EF = exposure frequency (days/year)

ED = exposure duration (years)

IR = inhalation rate (m3/day)

BW = body weight (kg)

AT = averaging time (days)

To represent residential exposures, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). Specifically, activity patterns for population mobility recommended by the U.S. Environmental Protection Agency and presented in the Exposure Factors Handbook were utilized. As a result, lifetime risk values for residents were adjusted to account for an exposure duration of 350 days per year for 30 years (i.e., 95th percentile). A 9 year exposure duration was additionally assessed to identify risk estimates associated with the average time individuals are reported to reside at a given residence. These values are consistent with the California Environmental Quality Act which considers the evaluation of environmental effects of proposed projects in a manner that reflects both reasonable and feasible assumptions. For body weight and inhalation, the assessment employed average adult values of 70 kilograms and 20 cubic meters per day, respectively.

Appendix 3.2, Tables A1 and A2, columns f-g, present the URF's and corresponding cancer potency factors for carcinogens considered in the assessment. The cancer risk attributed to each compound and summation of those risks are presented in column h.

For carcinogenic exposures, the summation of risk for the maximum exposed residential receptor totaled 3.00E-06 (3 in one million) for the 30 year and 9.01E-07 (0.90 in one million) for the 9 year exposure scenarios. In comparison to the threshold level of ten in one million, carcinogenic risks will not exceed the applicable thresholds for both the 30 and 9 year exposure scenario. Therefore, carcinogenic exposures are calculated to be within acceptable limits and are less than significant.

5.2 NON-CARCINOGENIC HAZARDS

An evaluation of the potential noncancer effects of contaminant exposures was also conducted. Under the point estimate approach, adverse health effects are evaluated by comparing the concentration of each compound with the appropriate Reference Exposure Level (REL). Available REL's presented in the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values were considered in the assessment.*

To quantify noncarcinogenic impacts, the hazard index approach was used. The hazard index assumes that subthreshold exposures adversely affect a specific organ or organ system (i.e., toxicological endpoint). For each discrete pollutant exposure, target organs presented in regulatory guidance were utilized.

To calculate the hazard index, the pollutant concentration or dose is divided by the appropriate toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds one (i.e., unity), a health hazard is presumed to exist. For chronic exposures, REL's were converted to units expressed in mg/kg/day to accommodate the above referenced intake algorithm. To assess acute noncancer impacts, the maximum pollutant concentration is divided by the REL for the corresponding averaging time (e.g., 1-hour). No exposure adjustments are considered for short duration exposures.

Appendix 3.2, Tables A1 and A2, columns i-j, present the REL's and corresponding reference dose values used in the evaluation of chronic noncarcinogenic exposures. The noncancer hazard quotient for identified compounds generated from each source and a summation for each toxicological endpoint are presented in columns k-r. Tables A3 through A4, column e present the REL's for the assessment of acute exposures. Columns f-m identify each compound's hazard quotient and corresponding index for each endpoint.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both the 30 year and 9 year exposure scenarios. For acute exposures (i.e., 1 and 8-hour), the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

5.3 CRITERIA POLLUTANT EXPOSURES

The State of California has promulgated strict ambient air quality standards for various pollutants. These standards were established to safeguard the public's health and welfare with specific emphasis on protecting those individuals susceptible to respiratory distress, such as asthmatics, the young, the elderly and those with existing conditions which may be affected by increased pollutant concentrations. However, recent research has shown that unhealthful respiratory responses occur with exposures to pollutants at levels that only marginally exceed clean air standards. Table 5-1 presents the CAAQS for the criteria pollutants considered in the assessment.

TABLE 5-1: CALIFORNIA AMBIENT AIR QUALITY STANDARDS

Pollutant	Standard	Health Effects
Particulates (PM10)	>50 μg/m3 (24 hr avg.) >20 μg/m3 (Annual)	1) Excess deaths from short-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory disease. 2) Excess seasonal declines in pulmonary function especially in children.
Particulates (PM2.5)	>12 μg/m3 (Annual)	1) Excess deaths and illness from long-term exposures and the exacerbation of symptoms in sensitive individuals with respiratory and cardio pulmonary disease.
Carbon Monoxide (CO)	>9.0 ppm (8 hr avg.) >20.0 ppm (1 hr avg.)	1) Aggravation of angina pectoris and other aspects of coronary heart disease. 2) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease. 3) Impairment of central nervous system functions. 4) Possible increased risk to fetuses.
Nitrogen Dioxide (NO2)	>0.18 ppm (1 hr avg.)	1) Potential to aggravate chronic respiratory disease and respiratory symptoms in sensitive groups. 2) Risk to public health implied by pulmonary and extra-pulmonary biochemical and cellular changes and pulmonary structural changes.

Abbreviations: ppm: parts per million; μg/m3: micrograms per cubic meter.
Source: California Code of Regulations, Title 17, Section 70200.

Pollutant emissions are considered to have a significant effect on the environment if they result in concentrations that create either a violation of an ambient air quality standard, contribute to an existing air quality violation or expose sensitive receptors to substantive pollutant concentrations. Should ambient air quality already exceed existing standards, the SCAQMD has established significance criteria for selected compounds to account for the continued degradation of local air quality. Background concentrations are based upon the highest observed value for the most recent three year period.

For PM_{10} emissions, background concentrations representative of the project area exceed the CAAQS for the 24-hour and annual averaging times. As a result, a significant impact is achieved when pollutant concentrations produce a measurable change over existing background levels. Although background concentrations exceed the CAAQS annual averaging time for fine particulates, no measurable change criteria currently exists. As a result, the SCAQMD significance threshold of 2.5 $\mu g/m^3$ for the 24-hour averaging time is used to assess $PM_{2.5}$ impacts.

For the CO 1 and 8-hour averaging times and NO_2 1-hour averaging time, background concentrations are below the current air quality standards. As such, significance is achieved when pollutant concentrations add to existing levels and create an exceedance of the CAAQS. Table 5-2 shows the pollutant concentrations collected at the nearest available monitoring sites

to the Project for the last three years of available data. The nearest long-term air quality monitoring site in relation to the project for Carbon Monoxide (CO) and Nitrogen Dioxide (NO_2) is carried out by the South Coast Air Quality Management District (SCAQMD) at the Lake Elsinore monitoring station (SRA 25) located approximately 8.50 miles northwest of the project site. Data for Particulate Matter ≤ 10 Microns (PM_{10}) was obtained from the Perris monitoring station (SRA 24), located approximately 13.50 miles north of the project site. Data for Ultra-Fine Particulates ($PM_{2.5}$) was obtained from the Metropolitan Riverside County 2 monitoring station (SRA 23), located approximately 26.50 miles northwest of the project site. It should be noted that the Perris and Metropolitan Riverside County 2 monitoring stations were utilized in lieu of the Lake Elsinore monitoring station only where data was not available from the nearest monitoring site. Table 5-3 outlines the relevant significance thresholds considered to affect local air quality.

TABLE 5-2: LAKE ELSINORE MONITORING SUMMARY (SRA 25)

Pollutant/ Averaging Time	Year			
	2011	2012	2013	Maximum
Particulates (PM_{10}) 24-Hour	65	62	70	70
Particulates ($PM_{2.5}$) 24-Hour	51.6	30.2	33.4	51.6
Particulates (PM_{10}) Annual	41.3	39.9	39.9	39.9
Carbon Monoxide (CO) 1-Hour 8-Hour	1.7 0.7	2.7 0.7	0.7 0.4	2.7 0.7
Nitrogen Dioxide (NO_2) 1-Hour	0.050	0.048	0.038	0.050

Note: PM_{10} concentrations are expressed in micrograms per cubic meter ($\mu g/m^3$). All others are expressed in parts per million (ppm).
Source: U.S Environmental Protection Agency and California Air Resources Board.

TABLE 5-3: SCAQMD AIR QUALITY SIGNIFICANCE THRESHOLDS

Pollutant	Averaging Time	Pollutant Concentration
Particulates (PM10) Particulates (PM2.5)	24-Hours	2.5 μg/m3 (operation)
Particulates (PM10)	Annual	1.0 μg/m3
Carbon Monoxide (CO)	1/8-Hours	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standards 20 ppm (1-hour) and 9 ppm (8-hour).
Nitrogen Dioxide (NO2)	1-Hour	SCAQMD is in attainment; impacts are significant if they cause or contribute to an exceedance of the following attainment standard 0.18 ppm.

Abbreviations: ppm: parts per million; μg/m3: micrograms per cubic meter
Source: South Coast Air Quality Management District.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 1.73 μg/m3 and 0.91 μg/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 μg/m3 and 1.0 μg/m3, respectively. For PM2.5, a maximum 24-hour average concentration of 0.74 μg/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5 μg/m3.

6 CONCLUSION

For carcinogenic exposures, the summation of risk for the maximum exposed residential receptor totaled 3.00E-06 (3 in one million) for the 30 year and 9.01E-07 (0.90 in one million) for the 9 year exposure scenarios. In comparison to the threshold level of ten in one million, carcinogenic risks will not exceed the applicable thresholds for both the 30 and 9 year exposure scenario. Therefore, carcinogenic exposures are calculated to be within acceptable limits and are less than significant.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for both the 30 year and 9 year exposure scenarios. For acute exposures (i.e., 1 and 8-hour), the hazard indices for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

For the maximum exposed residential receptor, results of the analysis predicted freeway emissions will produce PM10 concentrations of 1.73 μg/m3 and 0.91 μg/m3 for the 24-hour and annual averaging times. These values will not exceed the SCAQMD significance thresholds of 2.5 μg/m3 and 1.0 μg/m3, respectively. For PM2.5, a maximum 24-hour average concentration of 0.74 μg/m3 was predicted. This value also will not exceed the identified significance threshold of 2.5 μg/m3.

The maximum modeled 1-hour average concentration for CO of 0.04 parts per million (ppm) (44.51 μg/m3), when added to an existing background concentration of 2.7 ppm, would equal a total Project concentration of 2.74 ppm. This would not cause an exceedance of the California Ambient Air Quality Standards (CAAQS) of 20 ppm. For the 8-hour averaging time, the maximum predicted concentration of 0.03 ppm (37.36 μg/m3), when added to an existing background level of 0.70 ppm, would equal a total Project concentration of 0.73 ppm. This would not cause an exceedance of the CAAQS of 9 ppm.

For NO2, a maximum one hour concentration of 0.003 ppm (5.47 μg/m3) was predicted. This concentration, when added to a background concentration of 0.050 ppm, would equal a total Project concentration of 0.053 ppm. This would not cause an exceedance of the CAAQS of 0.18 ppm.

As noted, short duration (i.e., 1 and 8-hour) exposures associated with both toxic and criteria pollutants are within acceptable limits. As such, less than significant impacts are anticipated to residents who access and utilize outdoor amenities.

7 REFERENCES

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8 CERTIFICATION

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed TTM No. 36497 Project. The information contained in this health risk assessment is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 660-1994 ext. 217.

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PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013
Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

APPENDIX 3.1:

EMISSION RATE CALCULATION WORKSHEETS

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: Criteria

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	CO_RUNEX (gms/mile)	CO_RUNEX AVE (gms/mile)	NOX_RUNEX (gms/mile)	NOx_RUNEX AVE (gms/mile)	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)	PM10_PMTW (gms/mile)	PM10_PMTW_AVE (gms/mile)	PM10_PMBW (gms/mile)	PM10_PMBW_AVE (gms/mile)	PM2_5_RUNEX (gms/mile)	PM2_5_RUNEX_AVE (gms/mile)	PM2_5_PMTW (gms/mile)	PM2_5_PMTW_AVE (gms/mile)	PM2_5_PMBW (gms/mile)	PM2_5_PMBW_AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	45	3405.500555	0.0014	0.061835391	0.00008897	0.223083266	0.00032099	0.003842236	0.00000553	0.007999958	0.00001151	0.036749815	0.000052879	0.003534857	0.000005086	0.00199999	0.000002878	0.01574992	0.000022663
Riverside	2035	Annual	LDA	GAS	Aggregated	45	1066570.102	0.4506	0.569292686	0.25655157	0.051319861	0.02312728	0.001519041	0.00068456	0.007999959	0.00360518	0.036749815	0.016561292	0.001409419	0.000635154	0.00199999	0.000901295	0.01574992	0.007097696
Riverside	2035	Annual	LDT1	DSL	Aggregated	45	217.8977772	0.0001	0.071249742	0.00000656	0.26142755	0.00002407	0.003729178	0.00000034	0.007999958	0.00000074	0.036749815	0.000003383	0.003430844	0.000000316	0.00199999	0.000000184	0.01574992	0.000001450
Riverside	2035	Annual	LDT1	GAS	Aggregated	45	168278.3097	0.0711	0.687702064	0.04889654	0.061329451	0.00436061	0.001522813	0.00010827	0.007999959	0.00056881	0.036749816	0.002612961	0.00141292	0.000100460	0.00199999	0.000142202	0.01574992	0.001119840
Riverside	2035	Annual	LDT2	DSL	Aggregated	45	210.8491684	0.0001	0.075378735	0.00000672	0.27582533	0.00002457	0.004029061	0.00000036	0.007999959	0.00000071	0.036749815	0.000003274	0.003706737	0.000000330	0.00199999	0.000000178	0.01574992	0.000001403
Riverside	2035	Annual	LDT2	GAS	Aggregated	45	420164.741	0.1775	0.66754281	0.11850820	0.063286425	0.01123517	0.00150948	0.00026798	0.007999959	0.00142022	0.036749816	0.006524157	0.001400548	0.000248638	0.00199999	0.000355056	0.01574992	0.002796067
Riverside	2035	Annual	LHD1	DSL	Aggregated	45	37465.98169	0.0158	0.41546939	0.00657697	0.881293925	0.01395107	0.013806685	0.00021856	0.011999938	0.00018996	0.0764396	0.001210055	0.01270215	0.000201078	0.002999985	0.000047490	0.032759827	0.000518595
Riverside	2035	Annual	LHD1	GAS	Aggregated	45	63984.43118	0.0270	0.124990396	0.00337910	0.128628221	0.00347744	0.000156368	0.00000423	0.007999959	0.00021628	0.036749815	0.000993526	0.000145083	0.000003922	0.00199999	0.000054069	0.01574992	0.000425797
Riverside	2035	Annual	LHD2	DSL	Aggregated	45	11286.00692	0.0048	0.39626362	0.00188962	0.81720264	0.00389690	0.013027541	0.00006212	0.011999938	0.00005722	0.089179533	0.000425261	0.011985338	0.000057153	0.002999985	0.000014306	0.038219795	0.000182255
Riverside	2035	Annual	LHD2	GAS	Aggregated	45	5471.261048	0.0023	0.099454256	0.00022991	0.103557774	0.00023940	0.000121209	0.00000028	0.007999959	0.00001849	0.036749816	0.000084956	0.000112462	0.000000260	0.00199999	0.000004623	0.01574992	0.000036410
Riverside	2035	Annual	MCY	GAS	Aggregated	45	43044.15608	0.0182	16.94104406	0.30810875	1.139352621	0.02072154	0.000188925	0.00000344	0.007999959	0.00014550	0.036749816	0.000668373	0.000163567	0.000002975	0.00199999	0.000036374	0.01574992	0.000286446
Riverside	2035	Annual	MDV	DSL	Aggregated	45	383.3439174	0.0002	0.060714397	0.00000983	0.219143504	0.00003549	0.003761157	0.00000061	0.007999958	0.00000130	0.036749814	0.000005952	0.003460265	0.000000560	0.00199999	0.000000324	0.01574992	0.000002551
Riverside	2035	Annual	MDV	GAS	Aggregated	45	453629.5908	0.1917	0.828092698	0.15871939	0.078808511	0.01510512	0.001474084	0.00028254	0.007999958	0.00153334	0.036749815	0.007043787	0.001367707	0.000262146	0.00199999	0.000383335	0.01574992	0.003018766
Riverside	2035	Annual	MH	DSL	Aggregated	45	7799.594186	0.0033	0.357325391	0.00117757	3.077373748	0.01014149	0.036326819	0.00011972	0.011999938	0.00003955	0.130339313	0.000429534	0.033420675	0.000110138	0.002999985	0.000009886	0.055859694	0.000184086
Riverside	2035	Annual	MH	GAS	Aggregated	45	31533.06207	0.0133	0.126590467	0.00168662	0.144042848	0.00191914	0.000111601	0.00000149	0.007999958	0.00010659	0.036749815	0.000489633	0.000103547	0.000001380	0.00199999	0.000026647	0.015749919	0.000209843
Riverside	2035	Annual	T6	DSL	Aggregated	45	13216.14372	0.0056	0.328627147	0.00183509	0.873108361	0.00487554	0.034788856	0.00019426	0.011999937	0.00006701	0.130339319	0.000727830	0.032005747	0.000178724	0.002999984	0.000016752	0.055859708	0.000311927
Riverside	2035	Annual	T6	GAS	Aggregated	45	3296.016731	0.0014	0.228386782	0.00031806	0.184313507	0.00025668	0.000121946	0.00000017	0.007999958	0.00001114	0.036749815	0.000051179	0.000113146	0.000000158	0.00199999	0.000002785	0.01574992	0.000021934
Riverside	2035	Annual	T7	DSL	Aggregated	45	32591.04424	0.0138	0.888926675	0.01224091	1.861540335	0.02563424	0.067496965	0.00092946	0.03562886	0.00049063	0.061103494	0.000841422	0.062097208	0.000855106	0.008907215	0.000122656	0.026187212	0.000360610
Riverside	2035	Annual	T7	GAS	Aggregated	45	401.0951987	0.0002	20.40251124	0.00345765	4.359954692	0.00073889	0.000108658	0.00000002	0.007999959	0.00000136	0.036749816	0.000006228	0.000100816	0.000000017	0.00199999	0.000000339	0.01574992	0.000002669
Riverside	2035	Annual	OBUS	DSL	Aggregated	45	524.9365285	0.0002	0.602340065	0.00013360	1.35182513	0.00029983	0.051477546	0.00001142	0.011999937	0.00000266	0.130339319	0.000028909	0.047359342	0.000010504	0.002999984	0.000000665	0.055859708	0.000012390
Riverside	2035	Annual	OBUS	GAS	Aggregated	45	807.1332126	0.0003	0.258305816	0.00008809	0.20471189	0.00006981	0.000123613	0.00000004	0.007999959	0.00000273	0.036749815	0.000012533	0.000114692	0.000000039	0.00199999	0.000000682	0.01574992	0.000005371
Riverside	2035	Annual	SBUS	DSL	Aggregated	45	980.5491445	0.0004	0.704076377	0.00029170	3.33423371	0.00138139	0.056166568	0.00002327	0.011999937	0.00000497	0.744796108	0.000308572	0.051673243	0.000021408	0.002999984	0.000001243	0.319198332	0.000132245
Riverside	2035	Annual	SBUS	GAS	Aggregated	45	514.7430431	0.0002	0.487099313	0.00010594	0.348616451	0.00007582	0.000169766	0.00000004	0.007999958	0.00000174	0.036749815	0.000007993	0.000157515	0.000000034	0.00199999	0.000000435	0.015749919	0.000003425
Riverside	2035	Annual	UBUS	DSL	Aggregated	45	503.9835124	0.0002	0.685207915	0.00014591	3.640761138	0.00077528	0.058272667	0.00001241	0.007999958	0.00000170	0.841815662	0.000179260	0.053610852	0.000011416	0.00199999	0.000000426	0.36077812	0.000076826
Riverside	2035	Annual	UBUS	GAS	Aggregated	45	458.3555694	0.0002	3.777714709	0.00073161	2.385247678	0.00046194	0.000301735	0.00000006	0.007999958	0.00000155	0.036749815	0.000007117	0.00027996	0.000000054	0.00199999	0.000000387	0.01574992	0.000003050
							2366738.8	1.0		0.925		0.143		0.003		0.009		0.039		0.003		0.002		0.017

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: TOG GAS

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	GAS	Aggregated	45	1066570.102	0.4723	0.01318972	0.0062
Riverside	2035	Annual	LDT1	GAS	Aggregated	45	168278.3097	0.0745	0.016138928	0.0012
Riverside	2035	Annual	LDT2	GAS	Aggregated	45	420164.741	0.1861	0.016137722	0.0030
Riverside	2035	Annual	LHD1	GAS	Aggregated	45	63984.43118	0.0283	0.008695321	0.0002
Riverside	2035	Annual	LHD2	GAS	Aggregated	45	5471.261048	0.0024	0.007299842	0.0000
Riverside	2035	Annual	MCY	GAS	Aggregated	45	43044.15608	0.0191	2.159232018	0.0412
Riverside	2035	Annual	MDV	GAS	Aggregated	45	453629.5908	0.2009	0.020252615	0.0041
Riverside	2035	Annual	MH	GAS	Aggregated	45	31533.06207	0.0140	0.011376726	0.0002
Riverside	2035	Annual	T6	GAS	Aggregated	45	3296.016731	0.0015	0.015260733	0.0000
Riverside	2035	Annual	T7	GAS	Aggregated	45	401.0951987	0.0002	0.335529194	0.0001
Riverside	2035	Annual	OBUS	GAS	Aggregated	45	807.1332126	0.0004	0.01709237	0.0000
Riverside	2035	Annual	SBUS	GAS	Aggregated	45	514.7430431	0.0002	0.029086367	0.0000
Riverside	2035	Annual	UBUS	GAS	Aggregated	45	458.3555694	0.0002	0.217729503	0.0000
							2258153.0	1.0		0.056

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: TOG DSL

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	45	3405.500555	0.0314	0.007198504	0.0002
Riverside	2035	Annual	LDT1	DSL	Aggregated	45	217.8977772	0.0020	0.008287934	0.0000
Riverside	2035	Annual	LDT2	DSL	Aggregated	45	210.8491684	0.0019	0.008841383	0.0000
Riverside	2035	Annual	LHD1	DSL	Aggregated	45	37465.98169	0.3450	0.058791698	0.0203
Riverside	2035	Annual	LHD2	DSL	Aggregated	45	11286.00692	0.1039	0.055072339	0.0057
Riverside	2035	Annual	MDV	DSL	Aggregated	45	383.3439174	0.0035	0.007044664	0.0000
Riverside	2035	Annual	MH	DSL	Aggregated	45	7799.594186	0.0718	0.085838269	0.0062
Riverside	2035	Annual	T6	DSL	Aggregated	45	13216.14372	0.1217	0.079083601	0.0096
Riverside	2035	Annual	T7	DSL	Aggregated	45	32591.04424	0.3001	0.191107402	0.0574
Riverside	2035	Annual	OBUS	DSL	Aggregated	45	524.9365285	0.0048	0.133747719	0.0006
Riverside	2035	Annual	SBUS	DSL	Aggregated	45	980.5491445	0.0090	0.169434633	0.0015
Riverside	2035	Annual	UBUS	DSL	Aggregated	45	503.9835124	0.0046	0.146507146	0.0007
							108585.8	1.0		0.102

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: DSL Particulate

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	45	3405.500555	0.0314	0.003842236	0.0001
Riverside	2035	Annual	LDT1	DSL	Aggregated	45	217.8977772	0.0020	0.003729178	0.0000
Riverside	2035	Annual	LDT2	DSL	Aggregated	45	210.8491684	0.0019	0.004029061	0.0000
Riverside	2035	Annual	LHD1	DSL	Aggregated	45	37465.98169	0.3450	0.013806685	0.0048
Riverside	2035	Annual	LHD2	DSL	Aggregated	45	11286.00692	0.1039	0.013027541	0.0014
Riverside	2035	Annual	MDV	DSL	Aggregated	45	383.3439174	0.0035	0.003761157	0.0000
Riverside	2035	Annual	MH	DSL	Aggregated	45	7799.594186	0.0718	0.036326819	0.0026
Riverside	2035	Annual	T6	DSL	Aggregated	45	13216.14372	0.1217	0.034788856	0.0042
Riverside	2035	Annual	T7	DSL	Aggregated	45	32591.04424	0.3001	0.067496965	0.0203
Riverside	2035	Annual	OBUS	DSL	Aggregated	45	524.9365285	0.0048	0.051477546	0.0002
Riverside	2035	Annual	SBUS	DSL	Aggregated	45	980.5491445	0.0090	0.056166568	0.0005
Riverside	2035	Annual	UBUS	DSL	Aggregated	45	503.9835124	0.0046	0.058272667	0.0003
							108585.8	1.0		0.034

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: Criteria

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	CO_RUNEX (gms/mile)	CO_RUNEX AVE (gms/mile)	NOX_RUNEX (gms/mile)	NOx_RUNEX AVE (gms/mile)	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)	PM10_PMTW (gms/mile)	PM10_PMTW_AVE (gms/mile)	PM10_PMBW (gms/mile)	PM10_PMBW_AVE (gms/mile)	PM2_5_RUNEX (gms/mile)	PM2_5_RUNEX_AVE (gms/mile)	PM2_5_PMTW (gms/mile)	PM2_5_PMTW_AVE (gms/mile)	PM2_5_PMBW (gms/mile)	PM2_5_PMBW_AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	65	3405.500555	0.0014	0.048810299	0.00007023	0.272994541	0.00039281	0.007275337	0.00001047	0.007999958	0.00001151	0.036749815	0.000052879	0.00669331	0.000009631	0.00199999	0.000002878	0.01574992	0.000022663
Riverside	2035	Annual	LDA	GAS	Aggregated	65	1066570.102	0.4506	0.414252745	0.18668287	0.05407668	0.02436964	0.00181773	0.00081916	0.007999959	0.00360518	0.036749815	0.016561292	0.001686554	0.000760045	0.00199999	0.000901295	0.01574992	0.007097696
Riverside	2035	Annual	LDT1	DSL	Aggregated	65	217.8977772	0.0001	0.055202157	0.00000508	0.315058374	0.00002901	0.00721686	0.00000066	0.007999958	0.00000074	0.036749815	0.000003383	0.006639511	0.000000611	0.00199999	0.000000184	0.01574992	0.000001450
Riverside	2035	Annual	LDT1	GAS	Aggregated	65	168278.3097	0.0711	0.503570463	0.03580454	0.065205587	0.00463620	0.001818548	0.00012930	0.007999959	0.00056881	0.036749816	0.002612961	0.001687312	0.000119970	0.00199999	0.000142202	0.01574992	0.001119840
Riverside	2035	Annual	LDT2	DSL	Aggregated	65	210.8491684	0.0001	0.060331962	0.00000537	0.341478285	0.00003042	0.007476505	0.00000067	0.007999959	0.00000071	0.036749815	0.000003274	0.006878385	0.000000613	0.00199999	0.000000178	0.01574992	0.000001403
Riverside	2035	Annual	LDT2	GAS	Aggregated	65	420164.741	0.1775	0.487048562	0.08646524	0.066972839	0.01188962	0.001805662	0.00032056	0.007999959	0.00142022	0.036749816	0.006524157	0.001675356	0.000297424	0.00199999	0.000355056	0.01574992	0.002796067
Riverside	2035	Annual	LHD1	DSL	Aggregated	65	37465.98169	0.0158	0.501071516	0.00793207	1.514757885	0.02397894	0.011987463	0.00018976	0.011999938	0.00018996	0.0764396	0.001210055	0.011028466	0.000174583	0.002999985	0.000047490	0.032759827	0.000518595
Riverside	2035	Annual	LHD1	GAS	Aggregated	65	63984.43118	0.0270	0.189175491	0.00511433	0.161538016	0.00436716	0.000127674	0.00000345	0.007999959	0.00021628	0.036749815	0.000993526	0.00011846	0.000003203	0.00199999	0.000054069	0.01574992	0.000425797
Riverside	2035	Annual	LHD2	DSL	Aggregated	65	11286.00692	0.0048	0.473151249	0.00225626	1.404934145	0.00669955	0.011208928	0.00005345	0.011999938	0.00005722	0.089179533	0.000425261	0.010312214	0.000049175	0.002999985	0.000014306	0.038219795	0.000182255
Riverside	2035	Annual	LHD2	GAS	Aggregated	65	5471.261048	0.0023	0.145069116	0.00033536	0.12620273	0.00029175	9.93315E-05	0.00000023	0.007999959	0.00001849	0.036749816	0.000084956	9.21633E-05	0.000000213	0.00199999	0.000004623	0.01574992	0.000036410
Riverside	2035	Annual	MCY	GAS	Aggregated	65	43044.15608	0.0182	40.96972938	0.74512126	1.373290581	0.02497620	0.00037198	0.00000677	0.007999959	0.00014550	0.036749816	0.000668373	0.00032175	0.000005852	0.00199999	0.000036374	0.01574992	0.000286446
Riverside	2035	Annual	MDV	DSL	Aggregated	65	383.3439174	0.0002	0.047503659	0.00000769	0.266308423	0.00004313	0.007214937	0.00000117	0.007999958	0.00000130	0.036749814	0.000005952	0.000637743	0.000001075	0.00199999	0.000000324	0.01574992	0.000002551
Riverside	2035	Annual	MDV	GAS	Aggregated	65	453629.5908	0.1917	0.605701938	0.11609406	0.084551194	0.01620581	0.001761399	0.00033760	0.007999958	0.00153334	0.036749815	0.007043787	0.001634287	0.000313242	0.00199999	0.000383335	0.01574992	0.003018766
Riverside	2035	Annual	MH	DSL	Aggregated	65	7799.594186	0.0033	0.443390103	0.00146119	3.048432861	0.01004612	0.063531641	0.00020937	0.011999938	0.00003955	0.130339313	0.000429534	0.058449111	0.000192619	0.002999985	0.000009886	0.055859694	0.000184086
Riverside	2035	Annual	MH	GAS	Aggregated	65	31533.06207	0.0133	0.183441767	0.00244407	0.173542297	0.00231218	9.1555E-05	0.00000122	0.007999958	0.00010659	0.036749815	0.000489633	8.4948E-05	0.000001132	0.00199999	0.000026647	0.015749919	0.000209843
Riverside	2035	Annual	T6	DSL	Aggregated	65	13216.14372	0.0056	0.408412557	0.00228062	0.854539512	0.00477185	0.059789449	0.00033387	0.011999937	0.00006701	0.130339319	0.000727830	0.055006293	0.000307162	0.002999984	0.000016752	0.055859708	0.000311927
Riverside	2035	Annual	T6	GAS	Aggregated	65	3296.016731	0.0014	0.348357377	0.00048514	0.226248775	0.00031508	0.00010016	0.00000014	0.007999958	0.00001114	0.036749815	0.000051179	9.29323E-05	0.000000129	0.00199999	0.000002785	0.01574992	0.000021934
Riverside	2035	Annual	T7	DSL	Aggregated	65	32591.04424	0.0138	1.101165814	0.01516354	1.819153152	0.02505055	0.115470406	0.00159008	0.03562886	0.00049063	0.061103494	0.000841422	0.106232774	0.001462872	0.008907215	0.000122656	0.026187212	0.000360610
Riverside	2035	Annual	T7	GAS	Aggregated	65	401.0951987	0.0002	32.5418375	0.00551492	5.626849909	0.00095359	8.90388E-05	0.00000002	0.007999959	0.00000136	0.036749816	0.000006228	8.26133E-05	0.000000014	0.00199999	0.000000339	0.01574992	0.000002669
Riverside	2035	Annual	OBUS	DSL	Aggregated	65	524.9365285	0.0002	0.7468896	0.00016566	1.317947947	0.00029232	0.088202177	0.00001956	0.011999937	0.00000266	0.130339319	0.000028909	0.081146002	0.000017998	0.002999984	0.000000665	0.055859708	0.000012390
Riverside	2035	Annual	OBUS	GAS	Aggregated	65	807.1332126	0.0003	0.356286549	0.00012151	0.236555591	0.00008067	9.82834E-05	0.00000003	0.007999959	0.00000273	0.036749815	0.000012533	9.11908E-05	0.000000031	0.00199999	0.000000682	0.01574992	0.000005371
Riverside	2035	Annual	SBUS	DSL	Aggregated	65	980.5491445	0.0004	0.810803394	0.00033592	3.157915928	0.00130834	0.083400236	0.00003455	0.011999937	0.00000497	0.744796108	0.000308572	0.076728217	0.000031789	0.002999984	0.000001243	0.319198332	0.000132245
Riverside	2035	Annual	SBUS	GAS	Aggregated	65	514.7430431	0.0002	1.254577241	0.00027286	0.77443926	0.00016843	0.000253209	0.00000006	0.007999958	0.00000174	0.036749815	0.000007993	0.000234936	0.000000051	0.00199999	0.000000435	0.015749919	0.000003425
Riverside	2035	Annual	UBUS	DSL	Aggregated	65	503.9835124	0.0002	0.887992698	0.00018909	9.688391801	0.00206309	0.080189624	0.00001708	0.007999958	0.00000170	0.841815662	0.000179260	0.073774456	0.000015710	0.00199999	0.000000426	0.36077812	0.000076826
Riverside	2035	Annual	UBUS	GAS	Aggregated	65	458.3555694	0.0002	4.057544278	0.00078581	2.561347202	0.00049604	0.000215777	0.00000004	0.007999958	0.00000155	0.036749815	0.000007117	0.000200206	0.000000039	0.00199999	0.000000387	0.01574992	0.000003050
							2366738.8	1.0		1.215		0.166		0.004		0.009		0.039		0.004		0.002		0.017

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: TOG GAS

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	GAS	Aggregated	65	1066570.102	0.4723	0.015202523	0.0072
Riverside	2035	Annual	LDT1	GAS	Aggregated	65	168278.3097	0.0745	0.018438323	0.0014
Riverside	2035	Annual	LDT2	GAS	Aggregated	65	420164.741	0.1861	0.018595067	0.0035
Riverside	2035	Annual	LHD1	GAS	Aggregated	65	63984.43118	0.0283	0.007422387	0.0002
Riverside	2035	Annual	LHD2	GAS	Aggregated	65	5471.261048	0.0024	0.006013043	0.0000
Riverside	2035	Annual	MCY	GAS	Aggregated	65	43044.15608	0.0191	4.298255262	0.0819
Riverside	2035	Annual	MDV	GAS	Aggregated	65	453629.5908	0.2009	0.023227902	0.0047
Riverside	2035	Annual	MH	GAS	Aggregated	65	31533.06207	0.0140	0.009452198	0.0001
Riverside	2035	Annual	T6	GAS	Aggregated	65	3296.016731	0.0015	0.013141619	0.0000
Riverside	2035	Annual	T7	GAS	Aggregated	65	401.0951987	0.0002	0.31726125	0.0001
Riverside	2035	Annual	OBUS	GAS	Aggregated	65	807.1332126	0.0004	0.013636358	0.0000
Riverside	2035	Annual	SBUS	GAS	Aggregated	65	514.7430431	0.0002	0.047433947	0.0000
Riverside	2035	Annual	UBUS	GAS	Aggregated	65	458.3555694	0.0002	0.15812822	0.0000
							2258153.0	1.0		0.099

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: TOG DSL

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	TOG_RUNEX (gms/mile)	TOG_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	65	3405.500555	0.0314	0.013627141	0.0004
Riverside	2035	Annual	LDT1	DSL	Aggregated	65	217.8977772	0.0020	0.016029424	0.0000
Riverside	2035	Annual	LDT2	DSL	Aggregated	65	210.8491684	0.0019	0.016521913	0.0000
Riverside	2035	Annual	LHD1	DSL	Aggregated	65	37465.98169	0.3450	0.050440916	0.0174
Riverside	2035	Annual	LHD2	DSL	Aggregated	65	11286.00692	0.1039	0.046981386	0.0049
Riverside	2035	Annual	MDV	DSL	Aggregated	65	383.3439174	0.0035	0.013508427	0.0000
Riverside	2035	Annual	MH	DSL	Aggregated	65	7799.594186	0.0718	0.069679939	0.0050
Riverside	2035	Annual	T6	DSL	Aggregated	65	13216.14372	0.1217	0.059353799	0.0072
Riverside	2035	Annual	T7	DSL	Aggregated	65	32591.04424	0.3001	0.144072356	0.0432
Riverside	2035	Annual	OBUS	DSL	Aggregated	65	524.9365285	0.0048	0.100133543	0.0005
Riverside	2035	Annual	SBUS	DSL	Aggregated	65	980.5491445	0.0090	0.130336428	0.0012
Riverside	2035	Annual	UBUS	DSL	Aggregated	65	503.9835124	0.0046	0.208383651	0.0010
							108585.8	1.0		0.081

EMFAC2011 Emission Rates
Region Type: County
Region: Riverside
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Pollutant Classification: DSL Particulate

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Riverside	2035	Annual	LDA	DSL	Aggregated	65	3405.500555	0.0314	0.007275337	0.0002
Riverside	2035	Annual	LDT1	DSL	Aggregated	65	217.8977772	0.0020	0.00721686	0.0000
Riverside	2035	Annual	LDT2	DSL	Aggregated	65	210.8491684	0.0019	0.007476505	0.0000
Riverside	2035	Annual	LHD1	DSL	Aggregated	65	37465.98169	0.3450	0.011987463	0.0041
Riverside	2035	Annual	LHD2	DSL	Aggregated	65	11286.00692	0.1039	0.011208928	0.0012
Riverside	2035	Annual	MDV	DSL	Aggregated	65	383.3439174	0.0035	0.007214937	0.0000
Riverside	2035	Annual	MH	DSL	Aggregated	65	7799.594186	0.0718	0.063531641	0.0046
Riverside	2035	Annual	T6	DSL	Aggregated	65	13216.14372	0.1217	0.059789449	0.0073
Riverside	2035	Annual	T7	DSL	Aggregated	65	32591.04424	0.3001	0.115470406	0.0347
Riverside	2035	Annual	OBUS	DSL	Aggregated	65	524.9365285	0.0048	0.088202177	0.0004
Riverside	2035	Annual	SBUS	DSL	Aggregated	65	980.5491445	0.0090	0.083400236	0.0008
Riverside	2035	Annual	UBUS	DSL	Aggregated	65	503.9835124	0.0046	0.080189624	0.0004
							108585.8	1.0		0.054

Emission Factor Rate Adjustment Worksheet

CO Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.925
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	2.200

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	1.791
Emfac (gr/mi)	2.687

NOX Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.143
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.340

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.315
Emfac (gr/mi)	0.473

Emission Factor Rate Adjustment Worksheet

PM10 Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.003
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.007

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.015
Emfac (gr/mi)	0.023

PM2.5 Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.003
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.007

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.014
Emfac (gr/mi)	0.021

Emission Factor Rate Adjustment Worksheet

TOG GAS Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.056
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.133

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.236
Emfac (gr/mi)	0.354

TOG DSL Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.102
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.243

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	1.216
Emfac (gr/mi)	1.824

Emission Factor Rate Adjustment Worksheet

DSL Particulate Emissions

Acceleration / On-Ramp (15 - 45 mph)

Emfac (gr/mi) = (emfac at average link speed x 16/60) x (0.027) x (exp (.098 x acceleration speed product)) x (60 min/hr) / (average link speed)

emfac at link speed	0.034
speed (mph)	45.0
acceleration time (sec)	18.0
acceleration rate (mph/sec)	2.50
Emfac (gr/mi)	0.081

Deceleration / Off-Ramp

*Emfac (gr/mi) = (emfac at idle speed * 1.5)*

emfac at idle speed (gr/mi)	0.057
Emfac (gr/mi)	0.086

Source: California Department of Transportation, 1989. Division of New Technology and Research. Caline4 – A Dispersion Model for Predicting Air Pollution Concentrations Near Roadways (Revised). FHWA/CA/TL-84/15.

Emission Factor Profile Worksheet
Chronic Exposure

TOG -Toxic Emissions

Gasoline/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.028414	0.021422	0.006603	0.005511	0.001533
2005	0.028205	0.021200	0.006551	0.005450	0.001520
2006	0.027938	0.021000	0.006483	0.005350	0.001510
2007	0.027660	0.020700	0.006410	0.005250	0.001490
2008	0.027338	0.020300	0.006326	0.005120	0.001470
2009	0.026849	0.019800	0.006190	0.004870	0.001450
2010	0.026521	0.019400	0.006105	0.004750	0.001430
2011	0.026521	0.019400	0.006105	0.004750	0.001430
2012	0.025656	0.018500	0.005873	0.004370	0.001380
2013	0.025656	0.018500	0.005873	0.004370	0.001380
2014	0.025656	0.018500	0.005873	0.004370	0.001380
2015	0.024349	0.017100	0.005530	0.003850	0.001310
2016	0.024349	0.017100	0.005530	0.003850	0.001310
2017	0.024349	0.017100	0.005530	0.003850	0.001310
2018	0.022182	0.014700	0.004944	0.002860	0.001190
2019	0.022182	0.014700	0.004944	0.002860	0.001130
2020	0.021079	0.013600	0.004659	0.002450	0.001130
2021	0.021079	0.013600	0.004659	0.002450	0.001130
2022	0.021079	0.013600	0.004659	0.002450	0.001130
2023	0.021079	0.013600	0.004659	0.002450	0.001130
2024	0.021079	0.013600	0.004659	0.002450	0.001130
2025	0.021079	0.013600	0.004659	0.002450	0.001130
2026	0.021079	0.013600	0.004659	0.002450	0.001130
2027	0.021079	0.013600	0.004659	0.002450	0.001130
2028	0.021079	0.013600	0.004659	0.002450	0.001130
2029	0.021079	0.013600	0.004659	0.002450	0.001130
2030	0.021079	0.013600	0.004659	0.002450	0.001130

Analysis Year

2030	0.021079	0.013600	0.004659	0.002450	0.001130

TOG Emisson Rate - gr/mi

Speed (MPH)	Acceleration	0.133
	Deceleration	0.354
	65	0.099

Toxic Emission Rate - gr/mi	Acceleration	0.005708
Speed (MPH)	Deceleration	0.015193
	65	0.004249

Weight Fraction / Speciation

Benzene	0.491
Formaldehyde	0.317
1,3-Butadiene	0.109
Acetaldehyde	0.057
Acrolein	0.026

Diesel Particulate Emissions - PM10

Emission Factor Profile Worksheet
Chronic Exposure

PM10 Emission Rate - gr/mi	Acceleration	0.081
Speed (MPH)	Deceleration	0.086
	65	0.054

Source: TOG/toxic fractions from UC Davis-Caltrans Air Quality Project, *Estimating Mobile Source Air Toxic Emissions: A Step-by-Step Project Analysis Methodology*. Task Order No. 61.

Emission Factor Profile Worksheet
Acute Exposure

TOG -Toxic Emissions

Gasoline/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.028414	0.021422	0.006603	0.005511	0.001533
2005	0.028205	0.021200	0.006551	0.005450	0.001520
2006	0.027938	0.021000	0.006483	0.005350	0.001510
2007	0.027660	0.020700	0.006410	0.005250	0.001490
2008	0.027338	0.020300	0.006326	0.005120	0.001470
2009	0.026849	0.019800	0.006190	0.004870	0.001450
2010	0.026521	0.019400	0.006105	0.004750	0.001430
2011	0.026521	0.019400	0.006105	0.004750	0.001430
2012	0.025656	0.018500	0.005873	0.004370	0.001380
2013	0.025656	0.018500	0.005873	0.004370	0.001380
2014	0.025656	0.018500	0.005873	0.004370	0.001380
2015	0.024349	0.017100	0.005530	0.003850	0.001310
2016	0.024349	0.017100	0.005530	0.003850	0.001310
2017	0.024349	0.017100	0.005530	0.003850	0.001310
2018	0.022182	0.014700	0.004944	0.002860	0.001190
2019	0.022182	0.014700	0.004944	0.002860	0.001130
2020	0.021079	0.013600	0.004659	0.002450	0.001130
2021	0.021079	0.013600	0.004659	0.002450	0.001130
2022	0.021079	0.013600	0.004659	0.002450	0.001130
2023	0.021079	0.013600	0.004659	0.002450	0.001130
2024	0.021079	0.013600	0.004659	0.002450	0.001130
2025	0.021079	0.013600	0.004659	0.002450	0.001130
2026	0.021079	0.013600	0.004659	0.002450	0.001130
2027	0.021079	0.013600	0.004659	0.002450	0.001130
2028	0.021079	0.013600	0.004659	0.002450	0.001130
2029	0.021079	0.013600	0.004659	0.002450	0.001130
2030	0.021079	0.013600	0.004659	0.002450	0.001130

Analysis Year

2030	0.021079	0.013600	0.004659	0.002450	0.001130

TOG Emisson Rate - gr/mi

Speed (MPH)	Acceleration	0.133
	Deceleration	0.354
	65	0.099

Toxic Emission Rate - gr/mi	Acceleration	0.005708
Speed (MPH)	Deceleration	0.015193
	65	0.004249

Weight Fraction / Speciation

Benzene	0.491
Formaldehyde	0.317
1,3-Butadiene	0.109
Acetaldehyde	0.057
Acrolein	0.026

Emission Factor Profile Worksheet
Acute Exposure

TOG -Toxic Emissions

Diesel/Toxic Fractions/Hot Stabilized Exhaust

Year	Benzene	Formaldehyde	1,3-Butadiene	Acetaldehyde	Acrolein
2004	0.020009	0.147133	0.001900	0.073526	0
2005	0.020009	0.147133	0.001900	0.073526	0
2006	0.020009	0.147133	0.001900	0.073526	0
2007	0.020009	0.147133	0.001900	0.073526	0
2008	0.020009	0.147133	0.001900	0.073526	0
2009	0.020009	0.147133	0.001900	0.073526	0
2010	0.020009	0.147133	0.001900	0.073526	0
2011	0.020009	0.147133	0.001900	0.073526	0
2012	0.020009	0.147133	0.001900	0.073526	0
2013	0.020009	0.147133	0.001900	0.073526	0
2014	0.020009	0.147133	0.001900	0.073526	0
2015	0.020009	0.147133	0.001900	0.073526	0
2016	0.020009	0.147133	0.001900	0.073526	0
2017	0.020009	0.147133	0.001900	0.073526	0
2018	0.020009	0.147133	0.001900	0.073526	0
2019	0.020009	0.147133	0.001900	0.073526	0
2020	0.020009	0.147133	0.001900	0.073526	0
2021	0.020009	0.147133	0.001900	0.073526	0
2022	0.020009	0.147133	0.001900	0.073526	0
2023	0.020009	0.147133	0.001900	0.073526	0
2024	0.020009	0.147133	0.001900	0.073526	0
2025	0.020009	0.147133	0.001900	0.073526	0
2026	0.020009	0.147133	0.001900	0.073526	0
2027	0.020009	0.147133	0.001900	0.073526	0
2028	0.020009	0.147133	0.001900	0.073526	0
2029	0.020009	0.147133	0.001900	0.073526	0
2030	0.020009	0.147133	0.001900	0.073526	0

Analysis Year

2030	0.020009	0.147133	0.001900	0.073526	0

TOG Emisson Rate - gr/mi

Speed (MPH)	Acceleration	0.243
	Deceleration	1.824
	65	0.081

Toxic Emission Rate - gr/mi	Acceleration	0.058944
Speed (MPH)	Deceleration	0.442444
	65	0.019648

Weight Fraction / Speciation

Benzene	0.082
Formaldehyde	0.607
1,3-Butadiene	0.008
Acetaldehyde	0.303
Acrolein	0.000

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

CO Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Pollutant Mass Emission Rate (gr/mi)	1.215

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.52131
Pollutant Emission Rate (gr/sec/source)	1.00E-02

SB Route 15

CO Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Pollutant Mass Emission Rate (gr/mi)	1.215

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.52131
Pollutant Emission Rate (gr/sec/source)	1.00E-02

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

NOx Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Pollutant Mass Emission Rate (gr/mi)	0.166

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.07122
Pollutant Emission Rate (gr/sec/source)	1.37E-03

SB Route 15

NOx Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Pollutant Mass Emission Rate (gr/mi)	0.166

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.07122
Pollutant Emission Rate (gr/sec/source)	1.37E-03

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

PM10 Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Particle Size Multiplier (g/mi)	1.0
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.7
Emfac2011 Emissions Run (g/mi)	0.004
Emfac2011 Emissions TW/BW (g/mi)	0.048
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.130

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$) + (Emfac2011 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.055919
PM10 Reentrainment Emission Rate (gr/sec/source)	1.08E-03

SB Route 15

PM10 Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Particle Size Multiplier (g/mi)	1.0
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.7
Emfac2011 Emissions Run (g/mi)	0.004
Emfac2011 Emissions TW/BW (g/mi)	0.048
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.130

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$) + (Emfac2011 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.055919
PM10 Reentrainment Emission Rate (gr/sec/source)	1.08E-03

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

PM2.5 Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Particle Size Multiplier (g/mi)	0.25
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.7
Emfac2011 Emissions Run (g/mi)	0.004
Emfac2011 Emissions TW/BW (g/mi)	0.019
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.043

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$) + (Emfac2011 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.018270
PM10 Reentrainment Emission Rate (gr/sec/source)	3.51E-04

SB Route 15

PM2.5 Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2541.7
Particle Size Multiplier (g/mi)	0.25
Road Surface Silt Loading (g/m2)	0.02
Average Vehicle Weight (tons)	2.7
Emfac2011 Emissions Run (g/mi)	0.004
Emfac2011 Emissions TW/BW (g/mi)	0.019
PM10 Reentrainment Mass Emission Rate (gr/mi)	0.043

For PM10 Reentrainment: Mass Emission Rate (gr/mile) = ((Particulate PM10 Base Emission Factor) x (Road Surface Silt Loading)$^{0.91}$ x (Gross Vehicle Weight)$^{1.02}$) + (Emfac2011 Emissions)
Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

PM10 Reentrainment Emission Rate (gr/sec)	0.018270
PM10 Reentrainment Emission Rate (gr/sec/source)	3.51E-04

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

TOG GAS Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2425.1
Pollutant Mass Emission Rate (gr/mi)	0.004249

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00174
Pollutant Emission Rate (gr/sec/source)	3.35E-05

SB Route 15

TOG GAS Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	2425.1
Pollutant Mass Emission Rate (gr/mi)	0.004249

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00174
Pollutant Emission Rate (gr/sec/source)	3.35E-05

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

TOG DSL Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	116.6
Pollutant Mass Emission Rate (gr/mi)	0.019648

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00039
Pollutant Emission Rate (gr/sec/source)	7.44E-06

SB Route 15

TOG DSL Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	116.6
Pollutant Mass Emission Rate (gr/mi)	0.019648

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00039
Pollutant Emission Rate (gr/sec/source)	7.44E-06

On-Road Mobile Sources
Emission Rate Computation

NB Route 15

DSL Particulate Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	116.6
Pollutant Mass Emission Rate (gr/mi)	0.054

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00106
Pollutant Emission Rate (gr/sec/source)	2.04E-05

SB Route 15

DSL Particulate Emissions

Number of Sources	52
Link Length (meters)	978.0
Volume/Baseline (VPH)	116.6
Pollutant Mass Emission Rate (gr/mi)	0.054

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	0.00106
Pollutant Emission Rate (gr/sec/source)	2.04E-05

Riverside County Vehicle Population

All	2366738.8
DSL	108585.8

Chronic Diesel Fleet Mix (weight fraction) 0.0459

Link Counts	Sources	AADT	VPH all	VPH gas	VPH diesel
NB Route 15		61000	2541.7	2425.1	116.6
SB Route 15		61000	2541.7	2425.1	116.6

Initial Sigma Computation

Roadway Link / At Grade

Width of Traveled Way (m)	12.000
Average Wind Speed (m/s)	2.03
Source Separation Distance (m)	12.000

Initial Vertical Dispersion Parameter (Sigma Z)

$SZ = (1.8 + 0.11(TR)) \times (60/30)^{0.2}$

$TR = W2/U$

Where:

W2 = traveled way half width (m)

U = average wind speed (m/s)

SZ = 2.44

Initial Horizontal Dispersion Parameter (Sigma Y)

SY = (source separation distance)/2.15

SY = 5.58

Roadway Link / Depressed Section

Width of Traveled Way (m)	0.00
Average Wind Speed (m/s)	0.00
Depth of Cut (m)	0.00
Source Separation Distance (m)	0.00

Initial Vertical Dispersion Parameter (Sigma Z)

$SZ = (1.8 + 0.11(TR)) \times (60/30)^{0.2}$

$TR = DSTR \times W2/U$

$DSTR = 0.72 \times (\text{Depth of Cut})^{0.83}$

Where:

W2 = traveled way half width (m)

U = average wind speed (m/s)

SZ = #DIV/0!

Initial Horizontal Dispersion Parameter (Sigma Y)

SY = (source separation distance)/2.15

SY = 0.00

Note: 'source separation distance' cannot be less than 'width of traveled way' and must be multiples (e.g., 2x, 3x etc.) of 'width of traveled way' for approximate representation.

APPENDIX 3.2:

RISK CALCULATION WORKSHEETS

Table A2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
Residential Exposure Scenario (9 Year)

Source	Concentration		Weight Fraction	Contaminant	Carcinogenic Risk			Noncarcinogenic Hazards / Toxicological Endpoints*									
					URF	CPF	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m3)	(mg/m3)			(ug/m3)	(mg/kg/day)		(ug/m3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
Freeway	0.03475	3.5E-05	4.60E-01	Benzene	2.9E-05	1.0E-01	5.7E-08	6.0E+01	1.7E-02		2.6E-04	2.6E-04				2.6E-04	
			3.32E-01	Formaldehyde	6.0E-06	2.1E-02	8.5E-09	9.0E+00	2.6E-03	1.2E-03							
			1.05E-01	1,3-Butadiene	1.7E-04	6.0E-01	7.6E-08	2.0E+01	5.7E-03							1.7E-04	
			7.80E-02	Acetaldehyde	2.7E-06	1.0E-02	9.5E-10	1.4E+02	4.0E-02	1.9E-05							
			2.50E-02	Acrolein				3.5E-01	1.0E-04	2.4E-03							
	0.02049	2.0E-05	1.00E+00	Diesel Particulates	3.0E-04	1.1E+00	7.6E-07	5.0E+00	1.4E-03	3.9E-03							
Total							9.01E-07			7.6E-03	2.6E-04	2.6E-04	0.0E+00	0.0E+00	0.0E+00	4.3E-04	0.0E+00

* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	9
inhalation rate (m3/day)	20
average body weight (kg)	70
averaging time$_{(cancer)}$ (days)	25550
averaging time$_{(noncancer)}$ (days)	3285

Table A3
Quantification of Noncarcinogenic Acute Hazards
1-Hour Exposure / Average Traffic Scenario

Source	Concentration (ug/m3)	Weight Fraction	Contaminant	Noncarcinogenic Hazards / Toxicological Endpoints*								
				REL (ug/m3)	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Freeway	0.14857	4.60E-01	Benzene	1.3E+03			5.3E-05	5.3E-05			5.3E-05	
TOG		3.32E-01	Formaldehyde	5.5E+01								9.0E-04
		7.80E-02	Acetaldehyde	4.7E+02	2.5E-05							2.5E-05
		2.50E-02	Acrolein	2.5E+00	1.5E-03							1.5E-03
Freeway	0.03330	8.20E-02	Benzene	1.3E+03			2.1E-06	2.1E-06			2.1E-06	
Diesel/TOG		6.07E-01	Formaldehyde	5.5E+01								3.7E-04
		3.03E-01	Acetaldehyde	4.7E+02	2.1E-05							2.1E-05
Total					1.5E-03	0.0E+00	5.5E-05	5.5E-05	0.0E+00	0.0E+00	5.5E-05	2.8E-03

* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Table A4
Quantification of Noncarcinogenic Acute Hazards
8-Hour Exposure / Average Traffic Scenario

Source	Concentration (ug/m3)	Weight Fraction	Contaminant	Noncarcinogenic Hazards / Toxicological Endpoints*								
				REL (ug/m3)	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Freeway	0.12471	3.32E-01	Formaldehyde	9.0E+00	4.6E-03							
TOG		7.80E-02	Acetaldehyde	3.0E+02	3.2E-05							
		2.50E-02	Acrolein	7.0E-01	4.5E-03							
Freeway	0.02795	6.07E-01	Formaldehyde	9.0E+00	1.9E-03							
Diesel/TOG		3.03E-01	Acetaldehyde	3.0E+02	2.8E-05							
Total					1.1E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

* Key to Toxocological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g., teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

How to use:
Column A requests a value. Enter that value in column B.
Be sure to enter all four requested values.
The result appears in cell B20.

CONVERSION OF MICROGRAMS PER CUBIC METER TO PPM

MICROGRAMS PER CUBIC METER CONCENTRATION	5.47499
MOLECULAR WEIGHT	46.0055
TEMPERATURE IN DEG CELSIUS	25
ATMOSPHERIC PRESSURE IN mmHg (use 760 if unsure)	760
CONCENTRATION IN PPM	0.002911513

How to use:
Column A requests a value. Enter that value in column B.
Be sure to enter all four requested values.
The result appears in cell B20.

CONVERSION OF MICROGRAMS PER CUBIC METER TO PPM

MICROGRAMS PER CUBIC METER CONCENTRATION	44.51304
MOLECULAR WEIGHT	28.01
TEMPERATURE IN DEG CELSIUS	25
ATMOSPHERIC PRESSURE IN mmHg (use 760 if unsure)	760
CONCENTRATION IN PPM	0.038879384

How to use:
Column A requests a value. Enter that value in column B.
Be sure to enter all four requested values.
The result appears in cell B20.

CONVERSION OF MICROGRAMS PER CUBIC METER TO PPM

MICROGRAMS PER CUBIC METER CONCENTRATION	37.36466
MOLECULAR WEIGHT	28.01
TEMPERATURE IN DEG CELSIUS	25
ATMOSPHERIC PRESSURE IN mmHg (use 760 if unsure)	760
CONCENTRATION IN PPM	0.032635717

APPENDIX 3.3:

AERMOD MODEL OUTPUT SUMMARY FILE

AERMOD MODEL OUTPUT SUMMARY FILE (CO)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_CO\9239_CO.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC FLAT  FASTALL
   AVERTIME 1 8
   URBANOPT 2100516
   POLLUTID CO
   RUNORNOT RUN
   ERRORFIL 9239_CO.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.52131
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000948     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000949     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000950     VOLUME   478135.765 3716327.756 0.0
   LOCATION L0000951     VOLUME   478149.591 3716315.017 0.0
```

```
   LOCATION L0000952     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000953     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000954     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000955     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000956     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000957     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000958     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000959     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000960     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000961     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000962     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000963     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000964     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000965     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000966     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000967     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000968     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000969     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000970     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000971     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000972     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000973     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000974     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000975     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000976     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000977     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000978     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000979     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000980     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000981     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000982     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000983     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000984     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000985     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000986     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000987     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000988     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000989     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000990     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000991     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000992     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000993     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000994     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000995     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000996     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000997     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000998     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000999     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
** PREFIX
```

```
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.52131
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0001000     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0001001     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0001002     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0001003     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0001004     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0001005     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0001006     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0001007     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0001008     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0001009     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0001010     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0001011     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0001012     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0001013     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0001014     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0001015     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0001016     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0001017     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0001018     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0001019     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0001020     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0001021     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0001022     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0001023     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0001024     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0001025     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0001026     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0001027     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0001028     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0001029     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0001030     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0001031     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0001032     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0001033     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0001034     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0001035     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0001036     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0001037     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0001038     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0001039     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0001040     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0001041     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0001042     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0001043     VOLUME   478678.869 3715773.055 0.0
   LOCATION L0001044     VOLUME   478692.695 3715760.316 0.0
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   LOCATION L0001045     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0001046     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0001047     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0001048     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0001049     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0001050     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0001051     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000948     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000949     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000950     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000951     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000952     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000953     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000954     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000955     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000956     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000957     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000958     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000959     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000960     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000961     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000962     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000963     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000964     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000965     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000966     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000967     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000968     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000969     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000970     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000971     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000972     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000973     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000974     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000975     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000976     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000977     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000978     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000979     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000980     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000981     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000982     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000983     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000984     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000985     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000986     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000987     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000988     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000989     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000990     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000991     0.0100251923      0.00      8.74      2.72
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   SRCPARAM L0000992     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000993     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000994     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000995     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000996     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000997     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000998     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0000999     0.0100251923      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001000     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001001     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001002     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001003     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001004     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001005     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001006     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001007     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001008     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001009     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001010     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001011     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001012     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001013     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001014     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001015     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001016     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001017     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001018     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001019     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001020     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001021     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001022     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001023     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001024     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001025     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001026     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001027     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001028     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001029     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001030     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001031     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001032     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001033     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001034     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001035     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001036     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001037     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001038     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001039     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001040     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001041     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001042     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001043     0.0100251923      0.00      8.74      2.72
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   SRCPARAM L0001044     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001045     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001046     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001047     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001048     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001049     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001050     0.0100251923      0.00      8.74      2.72
   SRCPARAM L0001051     0.0100251923      0.00      8.74      2.72
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
   DISCCART    478675.98   3716337.58
```

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   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
```

```
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST 9239_CO.AD\01H1GALL.PLT 31
   PLOTFILE 8 ALL 1ST 9239_CO.AD\08H1GALL.PLT 32
   SUMMFILE 9239_CO.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        16:23:13

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  CO

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_CO.err
 **File for Summary of Results:   9239_CO.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000948	0	0.10025E-01	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES	
L0000949	0	0.10025E-01	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES	
L0000950	0	0.10025E-01	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES	
L0000951	0	0.10025E-01	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES	
L0000952	0	0.10025E-01	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES	
L0000953	0	0.10025E-01	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES	
L0000954	0	0.10025E-01	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES	
L0000955	0	0.10025E-01	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES	
L0000956	0	0.10025E-01	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES	
L0000957	0	0.10025E-01	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES	
L0000958	0	0.10025E-01	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES	
L0000959	0	0.10025E-01	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES	
L0000960	0	0.10025E-01	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES	
L0000961	0	0.10025E-01	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES	
L0000962	0	0.10025E-01	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES	

L0000963	0	0.10025E-01	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000964	0	0.10025E-01	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000965	0	0.10025E-01	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000966	0	0.10025E-01	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000967	0	0.10025E-01	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000968	0	0.10025E-01	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000969	0	0.10025E-01	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000970	0	0.10025E-01	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000971	0	0.10025E-01	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000972	0	0.10025E-01	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000973	0	0.10025E-01	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000974	0	0.10025E-01	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000975	0	0.10025E-01	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000976	0	0.10025E-01	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000977	0	0.10025E-01	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000978	0	0.10025E-01	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000979	0	0.10025E-01	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000980	0	0.10025E-01	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000981	0	0.10025E-01	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000982	0	0.10025E-01	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000983	0	0.10025E-01	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000984	0	0.10025E-01	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000985	0	0.10025E-01	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000986	0	0.10025E-01	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000987	0	0.10025E-01	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000988	0	0.10025E-01	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES	
L0000989	0	0.10025E-01	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES	
L0000990	0	0.10025E-01	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES	
L0000991	0	0.10025E-01	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES	
L0000992	0	0.10025E-01	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES	
L0000993	0	0.10025E-01	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES	
L0000994	0	0.10025E-01	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES	
L0000995	0	0.10025E-01	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES	
L0000996	0	0.10025E-01	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES	
L0000997	0	0.10025E-01	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES	
L0000998	0	0.10025E-01	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES	
L0000999	0	0.10025E-01	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES	
L0001000	0	0.10025E-01	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES	
L0001001	0	0.10025E-01	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES	
L0001002	0	0.10025E-01	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES	

L0001003	0	0.10025E-01	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0001004	0	0.10025E-01	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0001005	0	0.10025E-01	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0001006	0	0.10025E-01	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0001007	0	0.10025E-01	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0001008	0	0.10025E-01	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0001009	0	0.10025E-01	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0001010	0	0.10025E-01	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0001011	0	0.10025E-01	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0001012	0	0.10025E-01	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0001013	0	0.10025E-01	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0001014	0	0.10025E-01	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0001015	0	0.10025E-01	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0001016	0	0.10025E-01	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0001017	0	0.10025E-01	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0001018	0	0.10025E-01	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0001019	0	0.10025E-01	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0001020	0	0.10025E-01	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0001021	0	0.10025E-01	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0001022	0	0.10025E-01	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0001023	0	0.10025E-01	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0001024	0	0.10025E-01	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0001025	0	0.10025E-01	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0001026	0	0.10025E-01	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0001027	0	0.10025E-01	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0001028	0	0.10025E-01	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0001029	0	0.10025E-01	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0001030	0	0.10025E-01	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0001031	0	0.10025E-01	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0001032	0	0.10025E-01	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0001033	0	0.10025E-01	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0001034	0	0.10025E-01	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0001035	0	0.10025E-01	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0001036	0	0.10025E-01	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0001037	0	0.10025E-01	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0001038	0	0.10025E-01	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0001039	0	0.10025E-01	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0001040	0	0.10025E-01	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0001041	0	0.10025E-01	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0001042	0	0.10025E-01	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0001043	0	0.10025E-01	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES
L0001044	0	0.10025E-01	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0001045	0	0.10025E-01	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0001046	0	0.10025E-01	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0001047	0	0.10025E-01	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0001048	0	0.10025E-01	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0001049	0	0.10025E-01	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0001050	0	0.10025E-01	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0001051	0	0.10025E-01	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000948 , L0000949 , L0000950 , L0000951 , L0000952 , L0000953 , L0000954 , L0000955 ,
	L0000956 , L0000957 , L0000958 , L0000959 , L0000960 , L0000961 , L0000962 , L0000963 ,
	L0000964 , L0000965 , L0000966 , L0000967 , L0000968 , L0000969 , L0000970 , L0000971 ,
	L0000972 , L0000973 , L0000974 , L0000975 , L0000976 , L0000977 , L0000978 , L0000979 ,
	L0000980 , L0000981 , L0000982 , L0000983 , L0000984 , L0000985 , L0000986 , L0000987 ,
	L0000988 , L0000989 , L0000990 , L0000991 , L0000992 , L0000993 , L0000994 , L0000995 ,
	L0000996 , L0000997 , L0000998 , L0000999 , L0001000 , L0001001 , L0001002 , L0001003 ,
	L0001004 , L0001005 , L0001006 , L0001007 , L0001008 , L0001009 , L0001010 , L0001011 ,
	L0001012 , L0001013 , L0001014 , L0001015 , L0001016 , L0001017 , L0001018 , L0001019 ,
	L0001020 , L0001021 , L0001022 , L0001023 , L0001024 , L0001025 , L0001026 , L0001027 ,
	L0001028 , L0001029 , L0001030 , L0001031 , L0001032 , L0001033 , L0001034 , L0001035 ,
	L0001036 , L0001037 , L0001038 , L0001039 , L0001040 , L0001041 , L0001042 , L0001043 ,

L0001044 , L0001045 , L0001046 , L0001047 ,
L0001048 , L0001049 , L0001050 , L0001051 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        16:23:13

PAGE   8
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


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

   Surface file:   ..\elsi8.sfc
Met Version:  14134
   Profile file:   ..\elsi8.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3190                 Upper air station no.:
3190
                  Name: UNKNOWN                                     Name:
UNKNOWN
                  Year:   2008                                      Year:
2008

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0
BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
 08 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.54  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0  0.23
1.00   0.33  999.00  999.   -9.0  285.9    5.5
 08 01 01   1 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0  0.23
1.00   0.25  999.00  999.   -9.0  288.1    5.5
 08 01 01   1 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  289.9    5.5
 08 01 01   1 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  289.9    5.5
```

```
 08 01 01   1 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  292.0    5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0  0.23
1.00   0.27  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0  0.23
1.00   0.36  999.00  999.   -9.0  290.4    5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.63  999.00  999.   -9.0  288.8    5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  287.5    5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  286.4    5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  285.4    5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  282.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000948 , L0000949 , L0000950 , L0000951 , L0000952 ,
L0000953 , L0000954 , L0000955 , L0000956 , L0000957 , L0000958 , L0000959 , L0000960 ,
L0000961 , L0000962 , L0000963 , L0000964 , L0000965 , L0000966 , L0000967 , L0000968 ,
L0000969 , L0000970 , L0000971 , L0000972 , L0000973 , L0000974 , L0000975 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	44.51304	(10092718)	478691.64	3716202.66	43.16909	(10092718)
478707.50	3716202.08	42.18796	(10092718)	478722.13	3716203.48	41.18770	(10092718)
478738.32	3716207.75	39.95765	(09072619)	478755.66	3716207.18	39.07113	(09072619)
478771.82	3716215.80	37.76381	(09072619)	478786.68	3716223.30	36.67425	(12072419)
478802.87	3716229.99	35.65416	(12072419)	478813.58	3716240.83	34.72226	(12072419)
478826.70	3716247.92	33.91596	(12072419)	478839.28	3716257.16	33.08138	(12072419)
478853.06	3716264.52	32.32583	(12072419)	478860.94	3716277.90	31.55880	(12072419)
478873.93	3716286.22	30.86294	(12072419)	478893.91	3716296.70	29.93472	(12072419)
478639.90	3716237.60	43.86206	(12072419)	478661.72	3716250.85	41.47960	(12081019)
478677.78	3716255.94	40.20918	(12080919)	478692.90	3716252.46	39.59243	(12080919)
478708.56	3716251.39	38.83332	(12080919)	478724.49	3716252.33	37.98734	(12080919)

478743.90 3716254.87 36.94419 (12080919)
478760.50 3716263.70 35.79256 (12080919)
478776.16 3716271.33 34.80986 (12080919)
478807.33 3716292.55 32.79311 (12080919)
478818.04 3716304.27 31.99868 (12080919)
478827.44 3716316.65 31.26332 (12080919)
478837.15 3716329.19 30.54811 (12080919)
478848.66 3716343.35 29.76441 (12080919)
478864.52 3716345.21 29.26304 (12080919)
478877.21 3716336.06 29.17190 (12080919)
478687.09 3716357.64 34.56725 (12081019)
478675.98 3716337.58 35.94142 (12081019)
478673.14 3716319.49 36.94615 (12081019)
478675.54 3716299.43 37.85585 (12081019)
478700.17 3716289.41 37.18450 (12080919)
478720.01 3716292.02 36.17370 (12080919)
478736.14 3716295.73 35.32617 (12080919)
478751.18 3716303.14 34.40573 (12080919)
478788.45 3716328.21 32.09419 (12080919)
478797.61 3716340.63 31.35364 (12080919)
478808.94 3716350.88 30.65818 (12080919)
478815.48 3716366.57 29.94740 (12080919)
478825.73 3716377.91 29.30650 (12080919)
478827.76 3716403.05 28.46543 (12080919)
478848.25 3716397.38 28.14862 (12080919)
478869.18 3716398.47 27.62269 (12080919)
478885.75 3716399.12 27.21869 (12080919)
478711.57 3716349.20 33.93273 (12081019)
478731.63 3716355.74 32.88583 (12081019)
478744.71 3716368.82 31.91803 (12080919)
478760.18 3716379.28 31.04941 (12080919)
478772.39 3716393.02 30.20017 (12080919)
478784.82 3716409.59 29.29062 (12080919)
478886.03 3716447.93 25.92098 (12080919)
478866.54 3716446.91 26.33158 (12080919)
478847.82 3716449.22 26.63506 (12080919)
478828.84 3716449.99 26.98851 (12080919)
478829.86 3716485.89 25.94669 (12081019)
478828.84 3716534.37 24.85079 (12112818)
478847.56 3716535.39 24.44586 (12112818)
478848.59 3716488.71 25.49085 (08110202)
478867.82 3716484.87 25.24686 (12080919)
478885.01 3716481.79 25.03967 (12080919)
478865.00 3716539.24 24.01033 (12112818)
478883.98 3716540.01 23.66390 (08110202)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000948 , L0000949 , L0000950 , L0000951 , L0000952 , L0000953 , L0000954 , L0000955 , L0000956 , L0000957 , L0000958 , L0000959 , L0000960 , L0000961 , L0000962 , L0000963 , L0000964 , L0000965 , L0000966 , L0000967 , L0000968 , L0000969 , L0000970 , L0000971 , L0000972 , L0000973 , L0000974 , L0000975 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	37.36466	(09101924)	478691.64	3716202.66	36.23045	(09101924)
478707.50	3716202.08	35.39464	(09101924)	478722.13	3716203.48	34.53329	(09101924)
478738.32	3716207.75	33.45744	(09101924)	478755.66	3716207.18	32.64060	(09101924)
478771.82	3716215.80	31.42249	(09101924)	478786.68	3716223.30	30.39182	(09101924)
478802.87	3716229.99	29.40526	(09101924)	478813.58	3716240.83	28.50796	(09101924)
478826.70	3716247.92	27.72739	(09101924)	478839.28	3716257.16	26.92119	(09101924)
478853.06	3716264.52	26.18922	(09101924)	478860.94	3716277.90	25.45632	(09101924)
478873.93	3716286.22	24.78430	(09101924)	478893.91	3716296.70	23.88558	(09101924)
478639.90	3716237.60	36.68781	(09101924)	478661.72	3716250.85	34.54420	(09101924)
478677.78	3716255.94	33.42536	(09101924)	478692.90	3716252.46	32.94414	(09101924)
478708.56	3716251.39	32.30737	(09101924)	478724.49	3716252.33	31.56345	(09101924)

478743.90 3716254.87 30.61201 (09101924)
478760.50 3716263.70 29.49913 (09101924)
478776.16 3716271.33 28.54163 (09101924)
478807.33 3716292.55 26.54222 (09101924)
478818.04 3716304.27 25.73498 (09101924)
478827.44 3716316.65 24.97748 (09101924)
478837.15 3716329.19 24.23872 (09101924)
478848.66 3716343.35 23.42924 (09101924)
478864.52 3716345.21 22.98874 (09101924)
478877.21 3716336.06 23.00474 (09101924)
478687.09 3716357.64 27.08661 (09101924)
478675.98 3716337.58 28.56108 (09101924)
478673.14 3716319.49 29.72001 (09101924)
478675.54 3716299.43 30.83158 (09101924)
478700.17 3716289.41 30.46937 (09101924)
478720.01 3716292.02 29.58273 (09101924)
478736.14 3716295.73 28.80662 (09101924)
478751.18 3716303.14 27.91684 (09101924)
478788.45 3716328.21 25.60895 (09101924)
478797.61 3716340.63 24.83043 (09101924)
478808.94 3716350.88 24.11761 (09101924)
478815.48 3716366.57 23.33643 (09101924)
478825.73 3716377.91 22.66804 (09101924)
478827.76 3716403.05 21.67270 (09101924)
478848.25 3716397.38 21.49031 (09101924)
478869.18 3716398.47 21.06063 (09101924)
478885.75 3716399.12 20.73819 (09101924)
478711.57 3716349.20 26.84449 (09101924)
478731.63 3716355.74 25.94836 (09101924)
478744.71 3716368.82 24.96929 (09101924)
478760.18 3716379.28 24.10360 (09101924)
478772.39 3716393.02 23.21447 (09101924)
478784.82 3716409.59 22.24727 (09101924)
478886.03 3716447.93 19.14055 (09101924)
478866.54 3716446.91 19.45311 (09101924)
478847.82 3716449.22 19.64470 (09101924)
478828.84 3716449.99 19.89597 (09101924)
478829.86 3716485.89 18.56041 (09101924)
478828.84 3716534.37 16.82836 (09101924)
478847.56 3716535.39 16.64323 (09101924)
478848.59 3716488.71 18.24270 (09101924)
478867.82 3716484.87 18.15341 (09101924)
478885.01 3716481.79 18.05541 (09101924)
478865.00 3716539.24 16.37782 (09101924)
478883.98 3716540.01 16.20628 (09101924)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL HIGH 1ST HIGH VALUE IS	44.51304	ON 10092718:	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL HIGH 1ST HIGH VALUE IS	37.36466	ON 09101924:	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        16:23:13

PAGE  13
 **MODELOPTs:  NonDFAULT CONC                                      FLAT
FASTALL


 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (DPM)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_DPM\9239_DPM.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC DRYDPLT FLAT  FASTALL
   AVERTIME ANNUAL
   URBANOPT 2100516
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL 9239_DPM.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00106
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ---------------------------------------------------------------------
   LOCATION L0000636     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000637     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000638     VOLUME   478135.765 3716327.756 0.0
   LOCATION L0000639     VOLUME   478149.591 3716315.017 0.0
```

```
   LOCATION L0000640     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000641     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000642     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000643     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000644     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000645     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000646     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000647     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000648     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000649     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000650     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000651     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000652     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000653     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000654     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000655     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000656     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000657     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000658     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000659     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000660     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000661     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000662     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000663     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000664     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000665     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000666     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000667     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000668     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000669     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000670     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000671     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000672     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000673     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000674     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000675     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000676     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000677     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000678     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000679     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000680     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000681     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000682     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000683     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000684     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000685     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000686     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000687     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
** PREFIX
```

```
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00106
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000688     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000689     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000690     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000691     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000692     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000693     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000694     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000695     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000696     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000697     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000698     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000699     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000700     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000701     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000702     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000703     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000704     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000705     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000706     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000707     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000708     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000709     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000710     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000711     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000712     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000713     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000714     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000715     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000716     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000717     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000718     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000719     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000720     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000721     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000722     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000723     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000724     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000725     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000726     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000727     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000728     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000729     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000730     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000731     VOLUME   478678.869 3715773.055 0.0
   LOCATION L0000732     VOLUME   478692.695 3715760.316 0.0
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   LOCATION L0000733     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000734     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000735     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000736     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000737     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000738     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000739     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
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   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
```

```
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL 9239_DPM.AD\AN00GALL.PLT 31
   SUMMFILE 9239_DPM.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
```

```
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        14:55:44

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

                                             ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **PARTICLE DEPOSITION Data Provided.
 **Model Uses DRY DEPLETION.     DDPLETE  =  T
 **Model Uses WET DEPLETION.     WETDPLT  =  T

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  DPM

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_DPM.err
 **File for Summary of Results:   9239_DPM.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000636	2	0.20385E-04	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES
L0000637	2	0.20385E-04	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES
L0000638	2	0.20385E-04	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES
L0000639	2	0.20385E-04	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES
L0000640	2	0.20385E-04	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES
L0000641	2	0.20385E-04	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES
L0000642	2	0.20385E-04	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES
L0000643	2	0.20385E-04	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES
L0000644	2	0.20385E-04	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES
L0000645	2	0.20385E-04	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES
L0000646	2	0.20385E-04	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES
L0000647	2	0.20385E-04	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES
L0000648	2	0.20385E-04	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES
L0000649	2	0.20385E-04	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES
L0000650	2	0.20385E-04	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES

L0000651	2	0.20385E-04	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000652	2	0.20385E-04	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000653	2	0.20385E-04	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000654	2	0.20385E-04	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000655	2	0.20385E-04	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000656	2	0.20385E-04	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000657	2	0.20385E-04	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000658	2	0.20385E-04	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000659	2	0.20385E-04	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000660	2	0.20385E-04	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000661	2	0.20385E-04	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000662	2	0.20385E-04	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000663	2	0.20385E-04	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000664	2	0.20385E-04	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000665	2	0.20385E-04	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000666	2	0.20385E-04	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000667	2	0.20385E-04	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000668	2	0.20385E-04	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000669	2	0.20385E-04	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000670	2	0.20385E-04	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000671	2	0.20385E-04	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000672	2	0.20385E-04	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000673	2	0.20385E-04	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000674	2	0.20385E-04	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000675	2	0.20385E-04	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000676	2	0.20385E-04	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES
L0000677	2	0.20385E-04	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES
L0000678	2	0.20385E-04	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES
L0000679	2	0.20385E-04	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES
L0000680	2	0.20385E-04	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES
L0000681	2	0.20385E-04	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES
L0000682	2	0.20385E-04	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES
L0000683	2	0.20385E-04	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES
L0000684	2	0.20385E-04	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES
L0000685	2	0.20385E-04	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES
L0000686	2	0.20385E-04	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES
L0000687	2	0.20385E-04	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES
L0000688	2	0.20385E-04	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES
L0000689	2	0.20385E-04	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES
L0000690	2	0.20385E-04	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES

L0000691	2	0.20385E-04	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000692	2	0.20385E-04	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000693	2	0.20385E-04	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000694	2	0.20385E-04	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000695	2	0.20385E-04	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000696	2	0.20385E-04	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000697	2	0.20385E-04	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000698	2	0.20385E-04	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000699	2	0.20385E-04	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000700	2	0.20385E-04	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000701	2	0.20385E-04	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000702	2	0.20385E-04	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000703	2	0.20385E-04	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000704	2	0.20385E-04	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000705	2	0.20385E-04	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000706	2	0.20385E-04	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000707	2	0.20385E-04	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000708	2	0.20385E-04	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000709	2	0.20385E-04	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000710	2	0.20385E-04	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000711	2	0.20385E-04	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000712	2	0.20385E-04	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000713	2	0.20385E-04	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000714	2	0.20385E-04	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000715	2	0.20385E-04	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000716	2	0.20385E-04	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0000717	2	0.20385E-04	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0000718	2	0.20385E-04	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0000719	2	0.20385E-04	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0000720	2	0.20385E-04	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0000721	2	0.20385E-04	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0000722	2	0.20385E-04	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0000723	2	0.20385E-04	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0000724	2	0.20385E-04	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0000725	2	0.20385E-04	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0000726	2	0.20385E-04	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0000727	2	0.20385E-04	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0000728	2	0.20385E-04	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0000729	2	0.20385E-04	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0000730	2	0.20385E-04	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0000731	2	0.20385E-04	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES
L0000732	2	0.20385E-04	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0000733	2	0.20385E-04	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0000734	2	0.20385E-04	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0000735	2	0.20385E-04	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0000736	2	0.20385E-04	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0000737	2	0.20385E-04	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0000738	2	0.20385E-04	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0000739	2	0.20385E-04	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000636 , L0000637 , L0000638 , L0000639 , L0000640 , L0000641 , L0000642 , L0000643 ,
	L0000644 , L0000645 , L0000646 , L0000647 , L0000648 , L0000649 , L0000650 , L0000651 ,
	L0000652 , L0000653 , L0000654 , L0000655 , L0000656 , L0000657 , L0000658 , L0000659 ,
	L0000660 , L0000661 , L0000662 , L0000663 , L0000664 , L0000665 , L0000666 , L0000667 ,
	L0000668 , L0000669 , L0000670 , L0000671 , L0000672 , L0000673 , L0000674 , L0000675 ,
	L0000676 , L0000677 , L0000678 , L0000679 , L0000680 , L0000681 , L0000682 , L0000683 ,
	L0000684 , L0000685 , L0000686 , L0000687 , L0000688 , L0000689 , L0000690 , L0000691 ,
	L0000692 , L0000693 , L0000694 , L0000695 , L0000696 , L0000697 , L0000698 , L0000699 ,
	L0000700 , L0000701 , L0000702 , L0000703 , L0000704 , L0000705 , L0000706 , L0000707 ,
	L0000708 , L0000709 , L0000710 , L0000711 , L0000712 , L0000713 , L0000714 , L0000715 ,
	L0000716 , L0000717 , L0000718 , L0000719 , L0000720 , L0000721 , L0000722 , L0000723 ,
	L0000724 , L0000725 , L0000726 , L0000727 , L0000728 , L0000729 , L0000730 , L0000731 ,

L0000732 , L0000733 , L0000734 , L0000735 ,
L0000736 , L0000737 , L0000738 , L0000739 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000636 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000637 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000638 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000639 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000640 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000641 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000642 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000643 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000644 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000645 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000646 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000647 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000648 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000649 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000650 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000651 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000652 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000653 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000654 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000655 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000656 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000657 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000658 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000659 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000660 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000661 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000662 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000663 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000664 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000665 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000666 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000667 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000668 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000669 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000670 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000671 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000672 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000673 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000674 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000675 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000676 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000677 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000678 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000679 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000680 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000681 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000682 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000683 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000684 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000685 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000686 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000687 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000688 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000689 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000690 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000691 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000692 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000693 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000694 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000695 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000696 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000697 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000698 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000699 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000700 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000701 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000702 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000703 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000704 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000705 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000706 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000707 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000708 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000709 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000710 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000711 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000712 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000713 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000714 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000715 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000716 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000717 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000718 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000719 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000720 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000721 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000722 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000723 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000724 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000725 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000726 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000727 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000728 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000729 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000730 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000731 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000732 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000733 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000734 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000735 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000736 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000737 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000738 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000739 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.92000, 0.08000,

PARTICLE DIAMETER (MICRONS) =
2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        14:55:44

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 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

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

   Surface file:   ..\elsi8.sfc
Met Version:  14134
   Profile file:   ..\elsi8.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3190                  Upper air station no.:
3190
                  Name: UNKNOWN                                     Name:
UNKNOWN
                  Year:   2008                                      Year:
2008

 First 24 hours of scalar data
 YR MO DY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN  Z0 BOWEN
ALB  REF WS   WD   HT  REF TA  HT IPCOD PRATE  RH SFCP CCVR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 08 01 01 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.54  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0 0.23 1.00
0.33  999.00  999.  -9.  285.9   6.***  -9.00  999.  965.  0
 08 01 01 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0 0.23 1.00
0.25  999.00  999.  -9.  288.1   6.***  -9.00  999.  965.  0
 08 01 01 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  289.9   6.***  -9.00  999.  965.  0
 08 01 01 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  289.9   6.***  -9.00  999.  965.  0
```

```
 08 01 01 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  292.0   6.***  -9.00  999.  965.  0
 08 01 01 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0 0.23 1.00
0.27  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0 0.23 1.00
0.36  999.00  999.  -9.  290.4   6.***  -9.00  999.  965.  0
 08 01 01 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.63  999.00  999.  -9.  288.8   6.***  -9.00  999.  965.  0
 08 01 01 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  287.5   6.***  -9.00  999.  965.  0
 08 01 01 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  286.4   6.***  -9.00  999.  965.  0
 08 01 01 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  285.4   6.***  -9.00  999.  965.  0
 08 01 01 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  282.5   6.***  -9.00  999.  965.  0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000636 , L0000637 , L0000638 , L0000639 , L0000640 ,
L0000641 , L0000642 , L0000643 , L0000644 , L0000645 , L0000646 , L0000647 , L0000648 ,
L0000649 , L0000650 , L0000651 , L0000652 , L0000653 , L0000654 , L0000655 , L0000656 ,
L0000657 , L0000658 , L0000659 , L0000660 , L0000661 , L0000662 , L0000663 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
478677.13	3716198.67	0.02049	478691.64	3716202.66	0.01942
478707.50	3716202.08	0.01861	478722.13	3716203.48	0.01781
478738.32	3716207.75	0.01686	478755.66	3716207.18	0.01613
478771.82	3716215.80	0.01515	478786.68	3716223.30	0.01434
478802.87	3716229.99	0.01358	478813.58	3716240.83	0.01293
478826.70	3716247.92	0.01236	478839.28	3716257.16	0.01179
478853.06	3716264.52	0.01127	478860.94	3716277.90	0.01080
478873.93	3716286.22	0.01034	478893.91	3716296.70	0.00975
478639.90	3716237.60	0.02020	478661.72	3716250.85	0.01829
478677.78	3716255.94	0.01729	478692.90	3716252.46	0.01680
478708.56	3716251.39	0.01620	478724.49	3716252.33	0.01554

478743.90 3716254.87 0.01473
478760.50 3716263.70 0.01387
478776.16 3716271.33 0.01315
478807.33 3716292.55 0.01172
478818.04 3716304.27 0.01119
478827.44 3716316.65 0.01070
478837.15 3716329.19 0.01024
478848.66 3716343.35 0.00975
478864.52 3716345.21 0.00943
478877.21 3716336.06 0.00937
478687.09 3716357.64 0.01293
478675.98 3716337.58 0.01392
478673.14 3716319.49 0.01469
478675.54 3716299.43 0.01542
478700.17 3716289.41 0.01495
478720.01 3716292.02 0.01420
478736.14 3716295.73 0.01357
478751.18 3716303.14 0.01290
478788.45 3716328.21 0.01129
478797.61 3716340.63 0.01080
478808.94 3716350.88 0.01035
478815.48 3716366.57 0.00990
478825.73 3716377.91 0.00951
478827.76 3716403.05 0.00902
478848.25 3716397.38 0.00880
478869.18 3716398.47 0.00848
478885.75 3716399.12 0.00824
478711.57 3716349.20 0.01256
478731.63 3716355.74 0.01188
478744.71 3716368.82 0.01124
478760.18 3716379.28 0.01067
478772.39 3716393.02 0.01013
478784.82 3716409.59 0.00958
478886.03 3716447.93 0.00756
478866.54 3716446.91 0.00780
478847.82 3716449.22 0.00800
478828.84 3716449.99 0.00823
478829.86 3716485.89 0.00767
478828.84 3716534.37 0.00701
478847.56 3716535.39 0.00683
478848.59 3716488.71 0.00743
478867.82 3716484.87 0.00728
478885.01 3716481.79 0.00714
478865.00 3716539.24 0.00663
478883.98 3716540.01 0.00646

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

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

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

```
ALL       1ST HIGHEST VALUE IS       0.02049 AT (  478677.13,  3716198.67,   406.00,   406.00,    0.00)  DC
          2ND HIGHEST VALUE IS       0.02020 AT (  478639.90,  3716237.60,   406.00,   406.00,    0.00)  DC
          3RD HIGHEST VALUE IS       0.01942 AT (  478691.64,  3716202.66,   406.00,   406.00,    0.00)  DC
          4TH HIGHEST VALUE IS       0.01861 AT (  478707.50,  3716202.08,   406.00,   406.00,    0.00)  DC
          5TH HIGHEST VALUE IS       0.01829 AT (  478661.72,  3716250.85,   406.00,   406.00,    0.00)  DC
          6TH HIGHEST VALUE IS       0.01781 AT (  478722.13,  3716203.48,   406.00,   406.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.01729 AT (  478677.78,  3716255.94,   406.00,   406.00,    0.00)  DC
          8TH HIGHEST VALUE IS       0.01686 AT (  478738.32,  3716207.75,   406.00,   406.00,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01680 AT (  478692.90,  3716252.46,   406.00,   406.00,    0.00)  DC
         10TH HIGHEST VALUE IS       0.01620 AT (  478708.56,  3716251.39,   406.00,   406.00,    0.00)  DC
```

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        14:55:44

PAGE  46
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)

 Met Data File Includes       0.00 Millimeters (     0.000 Inches) of
Precipitation


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA
 MX W496   43849         MAIN: Total precipitation in SURFFILE is zero
(0.0) with     WetDepos

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (NO2)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.7.0
** Lakes Environmental Software Inc.
** Date: 7/18/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_NO2\9239_NO2.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC FLAT  FASTALL OLM
   AVERTIME 1
   URBANOPT 2100516
   POLLUTID NO2 H1H
   RUNORNOT RUN
** NO2 Conversion Options
   NO2STACK 0.100
   NO2EQUIL 0.900
** Hourly Ozone Data File: U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_NO2\..\ozone data.dat
   OZONEFIL "..\ozone data.dat" PPB
   ERRORFIL 9239_NO2.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.07122
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
```

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** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0001052     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0001053     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0001054     VOLUME   478135.765 3716327.756 0.0
   LOCATION L0001055     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0001056     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0001057     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0001058     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0001059     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0001060     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0001061     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0001062     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0001063     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0001064     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0001065     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0001066     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0001067     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0001068     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0001069     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0001070     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0001071     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0001072     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0001073     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0001074     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0001075     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0001076     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0001077     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0001078     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0001079     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0001080     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0001081     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0001082     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0001083     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0001084     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0001085     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0001086     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0001087     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0001088     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0001089     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0001090     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0001091     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0001092     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0001093     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0001094     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0001095     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0001096     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0001097     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0001098     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0001099     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0001100     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0001101     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0001102     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0001103     VOLUME   478813.238 3715703.545 0.0
```

```
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.07122
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0001104     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0001105     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0001106     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0001107     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0001108     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0001109     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0001110     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0001111     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0001112     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0001113     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0001114     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0001115     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0001116     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0001117     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0001118     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0001119     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0001120     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0001121     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0001122     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0001123     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0001124     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0001125     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0001126     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0001127     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0001128     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0001129     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0001130     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0001131     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0001132     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0001133     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0001134     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0001135     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0001136     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0001137     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0001138     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0001139     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0001140     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0001141     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0001142     VOLUME   478609.739 3715836.750 0.0
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   LOCATION L0001143     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0001144     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0001145     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0001146     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0001147     VOLUME   478678.869 3715773.055 0.0
   LOCATION L0001148     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0001149     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0001150     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0001151     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0001152     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0001153     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0001154     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0001155     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0001052     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001053     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001054     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001055     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001056     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001057     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001058     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001059     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001060     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001061     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001062     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001063     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001064     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001065     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001066     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001067     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001068     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001069     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001070     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001071     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001072     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001073     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001074     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001075     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001076     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001077     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001078     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001079     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001080     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001081     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001082     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001083     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001084     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001085     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001086     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001087     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001088     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001089     0.0013696154      0.00      8.74      2.72
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   SRCPARAM L0001090     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001091     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001092     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001093     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001094     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001095     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001096     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001097     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001098     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001099     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001100     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001101     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001102     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001103     0.0013696154      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001104     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001105     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001106     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001107     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001108     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001109     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001110     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001111     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001112     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001113     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001114     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001115     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001116     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001117     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001118     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001119     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001120     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001121     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001122     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001123     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001124     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001125     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001126     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001127     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001128     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001129     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001130     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001131     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001132     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001133     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001134     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001135     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001136     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001137     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001138     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001139     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001140     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001141     0.0013696154      0.00      8.74      2.72
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   SRCPARAM L0001142     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001143     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001144     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001145     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001146     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001147     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001148     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001149     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001150     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001151     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001152     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001153     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001154     0.0013696154      0.00      8.74      2.72
   SRCPARAM L0001155     0.0013696154      0.00      8.74      2.72
** ----------------------------------------------------------------------
   URBANSRC ALL
   NO2RATIO L0001052 0.05
   NO2RATIO L0001053 0.05
   NO2RATIO L0001054 0.05
   NO2RATIO L0001055 0.05
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   NO2RATIO L0001083 0.05
   NO2RATIO L0001084 0.05
   NO2RATIO L0001085 0.05
   NO2RATIO L0001086 0.05
   NO2RATIO L0001087 0.05
   NO2RATIO L0001088 0.05
   NO2RATIO L0001089 0.05
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NO2RATIO L0001090 0.05
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NO2RATIO L0001137 0.05
NO2RATIO L0001138 0.05
NO2RATIO L0001139 0.05
NO2RATIO L0001140 0.05
NO2RATIO L0001141 0.05
NO2RATIO L0001142 0.05
NO2RATIO L0001143 0.05
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   NO2RATIO L0001144 0.05
   NO2RATIO L0001145 0.05
   NO2RATIO L0001146 0.05
   NO2RATIO L0001147 0.05
   NO2RATIO L0001148 0.05
   NO2RATIO L0001149 0.05
   NO2RATIO L0001150 0.05
   NO2RATIO L0001151 0.05
   NO2RATIO L0001152 0.05
   NO2RATIO L0001153 0.05
   NO2RATIO L0001154 0.05
   NO2RATIO L0001155 0.05
** OLM Source Groups for Combined Plumes
   OLMGROUP ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
```

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   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE "U:\UcAir\6-10-14 AQMD Meteorological data\elsi6.sfc"
   PROFFILE "U:\UcAir\6-10-14 AQMD Meteorological data\elsi6.pfl"
   SURFDATA 0 2005
   UAIRDATA 3190 2005
   SITEDATA 99999 2005
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
```

```
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST 9239_NO2.AD\01H1GALL.PLT 31
   SUMMFILE 9239_NO2.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

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


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


    ********   WARNING MESSAGES   ********
 CO W276      23       POLLID: Special proc for 1h-NO2/SO2 24hPM25 NAAQS
disabled      NO2 H1H
 CO W271      31       COCARD: O3FILE w/o O3VALs; full conv for hrs with
miss O3
 ME W396     482       MEOPEN: Met data from outdated version of AERMET,
version:        12345

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

```
 *** AERMOD - VERSION  14134 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/18/14
 *** AERMET - VERSION  12345 ***   ***
***        10:31:52

PAGE   1
 **MODELOPTs:   NonDFAULT CONC      FLAT      FASTALL   OLM

                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Ozone Limiting Method (OLM) Used for NO2 Conversion
            with an Equilibrium NO2/NOx Ratio of  0.900 and
            with   1 OLMGROUP(s)
         7. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  NO2

 **NOTE: Special processing requirements applicable for the 1-hour NO2
NAAQS have been disabled!!!
         User has specified H1H on the POLLUTID keyword.
         High ranked 1-hour values are NOT averaged across the number of
years modeled, and
         complete years of data are NOT required.

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

```
 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **This Run Includes OZONE    Values for a Single Sector
             HOURLY OZONE    Values are Available

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

 **The AERMET Input Meteorological Data Version Date:  12345

 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_NO2.err
 **File for Summary of Results:   9239_NO2.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0001052	0	0.13696E-02	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES	
L0001053	0	0.13696E-02	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES	
L0001054	0	0.13696E-02	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES	
L0001055	0	0.13696E-02	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES	
L0001056	0	0.13696E-02	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES	
L0001057	0	0.13696E-02	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES	
L0001058	0	0.13696E-02	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES	
L0001059	0	0.13696E-02	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES	
L0001060	0	0.13696E-02	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES	
L0001061	0	0.13696E-02	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES	
L0001062	0	0.13696E-02	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES	
L0001063	0	0.13696E-02	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES	
L0001064	0	0.13696E-02	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES	
L0001065	0	0.13696E-02	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES	
L0001066	0	0.13696E-02	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES	
L0001067	0	0.13696E-02	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES	

L0001068		0	0.13696E-02	478329.3	3716149.4	406.0	0.00	8.74	2.72
YES									
L0001069		0	0.13696E-02	478343.2	3716136.7	406.0	0.00	8.74	2.72
YES									
L0001070		0	0.13696E-02	478357.0	3716123.9	406.0	0.00	8.74	2.72
YES									
L0001071		0	0.13696E-02	478370.8	3716111.2	406.0	0.00	8.74	2.72
YES									
L0001072		0	0.13696E-02	478384.6	3716098.5	406.0	0.00	8.74	2.72
YES									
L0001073		0	0.13696E-02	478398.5	3716085.7	406.0	0.00	8.74	2.72
YES									
L0001074		0	0.13696E-02	478412.3	3716073.0	406.0	0.00	8.74	2.72
YES									
L0001075		0	0.13696E-02	478426.1	3716060.2	406.0	0.00	8.74	2.72
YES									
L0001076		0	0.13696E-02	478439.9	3716047.5	406.0	0.00	8.74	2.72
YES									
L0001077		0	0.13696E-02	478453.8	3716034.8	406.0	0.00	8.74	2.72
YES									
L0001078		0	0.13696E-02	478467.6	3716022.0	406.0	0.00	8.74	2.72
YES									
L0001079		0	0.13696E-02	478481.4	3716009.3	406.0	0.00	8.74	2.72
YES									
L0001080		0	0.13696E-02	478495.2	3715996.5	406.0	0.00	8.74	2.72
YES									
L0001081		0	0.13696E-02	478509.1	3715983.8	406.0	0.00	8.74	2.72
YES									
L0001082		0	0.13696E-02	478522.9	3715971.1	406.0	0.00	8.74	2.72
YES									
L0001083		0	0.13696E-02	478536.7	3715958.3	406.0	0.00	8.74	2.72
YES									
L0001084		0	0.13696E-02	478550.5	3715945.6	406.0	0.00	8.74	2.72
YES									
L0001085		0	0.13696E-02	478564.4	3715932.8	406.0	0.00	8.74	2.72
YES									
L0001086		0	0.13696E-02	478578.2	3715920.1	406.0	0.00	8.74	2.72
YES									
L0001087		0	0.13696E-02	478592.0	3715907.4	406.0	0.00	8.74	2.72
YES									
L0001088		0	0.13696E-02	478605.8	3715894.6	406.0	0.00	8.74	2.72
YES									
L0001089		0	0.13696E-02	478619.7	3715881.9	406.0	0.00	8.74	2.72
YES									
L0001090		0	0.13696E-02	478633.5	3715869.2	406.0	0.00	8.74	2.72
YES									
L0001091		0	0.13696E-02	478647.3	3715856.4	406.0	0.00	8.74	2.72
YES									

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0001092	0	0.13696E-02	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES	
L0001093	0	0.13696E-02	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES	
L0001094	0	0.13696E-02	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES	
L0001095	0	0.13696E-02	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES	
L0001096	0	0.13696E-02	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES	
L0001097	0	0.13696E-02	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES	
L0001098	0	0.13696E-02	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES	
L0001099	0	0.13696E-02	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES	
L0001100	0	0.13696E-02	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES	
L0001101	0	0.13696E-02	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES	
L0001102	0	0.13696E-02	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES	
L0001103	0	0.13696E-02	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES	
L0001104	0	0.13696E-02	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES	
L0001105	0	0.13696E-02	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES	
L0001106	0	0.13696E-02	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES	
L0001107	0	0.13696E-02	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES	

L0001108		0	0.13696E-02	478139.7	3716269.9	406.0	0.00	8.74	2.72
YES									
L0001109		0	0.13696E-02	478153.5	3716257.1	406.0	0.00	8.74	2.72
YES									
L0001110		0	0.13696E-02	478167.3	3716244.4	406.0	0.00	8.74	2.72
YES									
L0001111		0	0.13696E-02	478181.1	3716231.7	406.0	0.00	8.74	2.72
YES									
L0001112		0	0.13696E-02	478195.0	3716218.9	406.0	0.00	8.74	2.72
YES									
L0001113		0	0.13696E-02	478208.8	3716206.2	406.0	0.00	8.74	2.72
YES									
L0001114		0	0.13696E-02	478222.6	3716193.4	406.0	0.00	8.74	2.72
YES									
L0001115		0	0.13696E-02	478236.4	3716180.7	406.0	0.00	8.74	2.72
YES									
L0001116		0	0.13696E-02	478250.3	3716168.0	406.0	0.00	8.74	2.72
YES									
L0001117		0	0.13696E-02	478264.1	3716155.2	406.0	0.00	8.74	2.72
YES									
L0001118		0	0.13696E-02	478277.9	3716142.5	406.0	0.00	8.74	2.72
YES									
L0001119		0	0.13696E-02	478291.7	3716129.7	406.0	0.00	8.74	2.72
YES									
L0001120		0	0.13696E-02	478305.6	3716117.0	406.0	0.00	8.74	2.72
YES									
L0001121		0	0.13696E-02	478319.4	3716104.3	406.0	0.00	8.74	2.72
YES									
L0001122		0	0.13696E-02	478333.2	3716091.5	406.0	0.00	8.74	2.72
YES									
L0001123		0	0.13696E-02	478347.0	3716078.8	406.0	0.00	8.74	2.72
YES									
L0001124		0	0.13696E-02	478360.9	3716066.1	406.0	0.00	8.74	2.72
YES									
L0001125		0	0.13696E-02	478374.7	3716053.3	406.0	0.00	8.74	2.72
YES									
L0001126		0	0.13696E-02	478388.5	3716040.6	406.0	0.00	8.74	2.72
YES									
L0001127		0	0.13696E-02	478402.3	3716027.8	406.0	0.00	8.74	2.72
YES									
L0001128		0	0.13696E-02	478416.2	3716015.1	406.0	0.00	8.74	2.72
YES									
L0001129		0	0.13696E-02	478430.0	3716002.4	406.0	0.00	8.74	2.72
YES									
L0001130		0	0.13696E-02	478443.8	3715989.6	406.0	0.00	8.74	2.72
YES									
L0001131		0	0.13696E-02	478457.7	3715976.9	406.0	0.00	8.74	2.72
YES									

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0001132	0	0.13696E-02	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES	
L0001133	0	0.13696E-02	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES	
L0001134	0	0.13696E-02	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES	
L0001135	0	0.13696E-02	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES	
L0001136	0	0.13696E-02	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES	
L0001137	0	0.13696E-02	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES	
L0001138	0	0.13696E-02	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES	
L0001139	0	0.13696E-02	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES	
L0001140	0	0.13696E-02	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES	
L0001141	0	0.13696E-02	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES	
L0001142	0	0.13696E-02	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES	
L0001143	0	0.13696E-02	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES	
L0001144	0	0.13696E-02	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES	
L0001145	0	0.13696E-02	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES	
L0001146	0	0.13696E-02	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES	
L0001147	0	0.13696E-02	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES	

L0001148		0	0.13696E-02	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0001149		0	0.13696E-02	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0001150		0	0.13696E-02	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0001151		0	0.13696E-02	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0001152		0	0.13696E-02	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0001153		0	0.13696E-02	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0001154		0	0.13696E-02	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0001155		0	0.13696E-02	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 ,
	L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 ,
	L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 ,
	L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 ,
	L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 ,
	L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 ,
	L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 , L0001106 , L0001107 ,
	L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 , L0001114 , L0001115 ,
	L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 ,
	L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 ,
	L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 ,
	L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 ,
	L0001148 , L0001149 , L0001150 , L0001151 , L0001152 , L0001153 , L0001154 , L0001155 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** SOURCE IDs DEFINING OLM SOURCE GROUPS ***
*** FOR COMBINING PLUMES ***

OLMGROUP ID	SOURCE IDs
ALL	L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 ,
	L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 ,
	L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 ,
	L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 ,
	L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 ,
	L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 ,
	L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 , L0001106 , L0001107 ,
	L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 , L0001114 , L0001115 ,
	L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 ,
	L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 ,
	L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 ,
	L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 ,

L0001148 , L0001149 , L0001150 , L0001151 ,
L0001152 , L0001153 , L0001154 , L0001155 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2100516.	L0001052 , L0001053 , L0001054 , L0001055 , L0001056 , L0001057 , L0001058 , L0001059 ,
		L0001060 , L0001061 , L0001062 , L0001063 , L0001064 , L0001065 , L0001066 , L0001067 ,
		L0001068 , L0001069 , L0001070 , L0001071 , L0001072 , L0001073 , L0001074 , L0001075 ,
		L0001076 , L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 ,
		L0001084 , L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 ,
		L0001092 , L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 ,
		L0001100 , L0001101 , L0001102 , L0001103 , L0001104 , L0001105 , L0001106 , L0001107 ,
		L0001108 , L0001109 , L0001110 , L0001111 , L0001112 , L0001113 , L0001114 , L0001115 ,
		L0001116 , L0001117 , L0001118 , L0001119 , L0001120 , L0001121 , L0001122 , L0001123 ,
		L0001124 , L0001125 , L0001126 , L0001127 , L0001128 , L0001129 , L0001130 , L0001131 ,
		L0001132 , L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001138 , L0001139 ,
		L0001140 , L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001146 , L0001147 ,

L0001148 , L0001149 , L0001150 , L0001151 ,
L0001152 , L0001153 , L0001154 , L0001155 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** IN-STACK NO2 RATIOS FOR OLM/PVMRM OPTIONS ***

SOURCE_ID	NO2_RATIO	SOURCE_ID	NO2_RATIO	SOURCE_ID	NO2_RATIO	SOURCE_ID	NO2_RATIO
L0001052	0.050	L0001053	0.050	L0001054	0.050	L0001055	0.050
L0001056	0.050	L0001057	0.050	L0001058	0.050	L0001059	0.050
L0001060	0.050	L0001061	0.050	L0001062	0.050	L0001063	0.050
L0001064	0.050	L0001065	0.050	L0001066	0.050	L0001067	0.050
L0001068	0.050	L0001069	0.050	L0001070	0.050	L0001071	0.050
L0001072	0.050	L0001073	0.050	L0001074	0.050	L0001075	0.050
L0001076	0.050	L0001077	0.050	L0001078	0.050	L0001079	0.050
L0001080	0.050	L0001081	0.050	L0001082	0.050	L0001083	0.050
L0001084	0.050	L0001085	0.050	L0001086	0.050	L0001087	0.050
L0001088	0.050	L0001089	0.050	L0001090	0.050	L0001091	0.050
L0001092	0.050	L0001093	0.050	L0001094	0.050	L0001095	0.050
L0001096	0.050	L0001097	0.050	L0001098	0.050	L0001099	0.050
L0001100	0.050	L0001101	0.050	L0001102	0.050	L0001103	0.050
L0001104	0.050	L0001105	0.050	L0001106	0.050	L0001107	0.050
L0001108	0.050	L0001109	0.050	L0001110	0.050	L0001111	0.050
L0001112	0.050	L0001113	0.050	L0001114	0.050	L0001115	0.050
L0001116	0.050	L0001117	0.050	L0001118	0.050	L0001119	0.050
L0001120	0.050	L0001121	0.050	L0001122	0.050	L0001123	0.050
L0001124	0.050	L0001125	0.050	L0001126	0.050	L0001127	0.050

L0001128	0.050	L0001129	0.050	L0001130	0.050
L0001131	0.050				
L0001132	0.050	L0001133	0.050	L0001134	0.050
L0001135	0.050				
L0001136	0.050	L0001137	0.050	L0001138	0.050
L0001139	0.050				
L0001140	0.050	L0001141	0.050	L0001142	0.050
L0001143	0.050				
L0001144	0.050	L0001145	0.050	L0001146	0.050
L0001147	0.050				
L0001148	0.050	L0001149	0.050	L0001150	0.050
L0001151	0.050				
L0001152	0.050	L0001153	0.050	L0001154	0.050
L0001155	0.050				

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);
(478736.1, 3716295.7, 406.0, 406.0, 0.0); (478751.2, 3716303.1, 406.0, 406.0, 0.0);

(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

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

Surface file: U:\UcAir\6-10-14 AQMD Meteorological data\elsi6.sfc Met Version: 12345
Profile file: U:\UcAir\6-10-14 AQMD Meteorological data\elsi6.pfl
Surface format: FREE
Profile format: FREE
Surface station no.: 0 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2005 Year: 2005

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
05	01	01	1	01	-2.0	0.049	-9.000	-9.000	-999.	25.	5.1	0.23	1.00	1.00	0.90	356.	9.1	278.1	5.5
05	01	01	1	02	-8.0	0.098	-9.000	-9.000	-999.	71.	10.1	0.23	1.00	1.00	1.80	13.	9.1	278.1	5.5
05	01	01	1	03	-2.0	0.049	-9.000	-9.000	-999.	25.	5.0	0.23	1.00	1.00	0.90	351.	9.1	277.5	5.5
05	01	01	1	04	-0.4	0.022	-9.000	-9.000	-999.	7.	2.2	0.23	1.00	1.00	0.40	59.	9.1	277.0	5.5
05	01	01	1	05	-0.4	0.022	-9.000	-9.000	-999.	7.	2.2	0.23	1.00	1.00	0.40	105.	9.1	277.5	5.5
05	01	01	1	06	-0.4	0.022	-9.000	-9.000	-999.	7.	2.2	0.23	1.00	1.00	0.40	7.	9.1	277.0	5.5
05	01	01	1	07	-1.7	0.049	-9.000	-9.000	-999.	25.	5.9	0.23	1.00	1.00	0.90	98.	9.1	276.4	5.5
05	01	01	1	08	-1.4	0.049	-9.000	-9.000	-999.	25.	7.4	0.23	1.00	0.54	0.90	60.	9.1	276.4	5.5
05	01	01	1	09	0.1	0.047	0.022	0.007	4.	24.	-90.3	0.23	1.00	0.33	0.40	246.	9.1	277.0	5.5
05	01	01	1	10	0.1	0.047	0.025	0.007	5.	24.	-90.3	0.23	1.00	0.25	0.40	108.	9.1	279.2	5.5
05	01	01	1	11	0.1	0.099	0.027	0.005	7.	72.	-840.2	0.23	1.00	0.23	0.90	275.	9.1	280.4	5.5
05	01	01	1	12	0.1	0.099	0.028	0.005	8.	72.	-840.2	0.23	1.00	0.22	0.90	235.	9.1	282.0	5.5
05	01	01	1	13	0.1	0.142	0.029	0.005	9.	123.	-2478.5	0.23	1.00	0.22	1.30	217.	9.1	283.1	5.5

```
 05 01 01   1 14    0.1  0.099  0.030  0.005    9.   72.   -840.2  0.23
1.00   0.23    0.90  210.    9.1  283.8    5.5
 05 01 01   1 15    0.1  0.047  0.031  0.006   10.   24.    -90.3  0.23
1.00   0.27    0.40  188.    9.1  283.8    5.5
 05 01 01   1 16    0.1  0.047  0.032  0.007   11.   24.    -90.3  0.23
1.00   0.36    0.40  301.    9.1  283.8    5.5
 05 01 01   1 17   -0.3  0.022 -9.000 -9.000 -999.    7.      3.2  0.23
1.00   0.63    0.40  277.    9.1  283.1    5.5
 05 01 01   1 18   -1.7  0.049 -9.000 -9.000 -999.   25.      5.9  0.23
1.00   1.00    0.90  267.    9.1  282.5    5.5
 05 01 01   1 19   -0.3  0.022 -9.000 -9.000 -999.    7.      2.6  0.23
1.00   1.00    0.40  342.    9.1  281.4    5.5
 05 01 01   1 20   -1.7  0.049 -9.000 -9.000 -999.   25.      5.9  0.23
1.00   1.00    0.90    8.    9.1  279.9    5.5
 05 01 01   1 21   -1.7  0.049 -9.000 -9.000 -999.   25.      5.9  0.23
1.00   1.00    0.90  355.    9.1  279.2    5.5
 05 01 01   1 22   -0.3  0.022 -9.000 -9.000 -999.    7.      2.6  0.23
1.00   1.00    0.40  306.    9.1  278.8    5.5
 05 01 01   1 23   -0.3  0.022 -9.000 -9.000 -999.    7.      2.6  0.23
1.00   1.00    0.40  326.    9.1  277.5    5.5
 05 01 01   1 24   -0.3  0.022 -9.000 -9.000 -999.    7.      2.6  0.23
1.00   1.00    0.40    7.    9.1  277.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 05 01 01 01    5.5 0 -999.  -99.00   278.2   99.0  -99.00  -99.00
 05 01 01 01    9.1 1  356.    0.90  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001052 , L0001053 , L0001054 , L0001055 , L0001056 ,
L0001057 , L0001058 , L0001059 , L0001060 , L0001061 , L0001062 , L0001063 , L0001064 ,
L0001065 , L0001066 , L0001067 , L0001068 , L0001069 , L0001070 , L0001071 , L0001072 ,
L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	5.47499	(09072619)	478691.64	3716202.66	5.31408	(09072619)
478707.50	3716202.08	5.19390	(09072619)	478722.13	3716203.48	5.07287	(09072619)
478738.32	3716207.75	4.92563	(09072619)	478755.66	3716207.18	4.81641	(09072619)
478771.82	3716215.80	4.65685	(09072619)	478786.68	3716223.30	4.52333	(09072619)
478802.87	3716229.99	4.39653	(09072619)	478813.58	3716240.83	4.27986	(09072619)
478826.70	3716247.92	4.17946	(09072619)	478839.28	3716257.16	4.07515	(09072619)
478853.06	3716264.52	3.98091	(09072619)	478860.94	3716277.90	3.88410	(09072619)
478873.93	3716286.22	3.79705	(09072619)	478893.91	3716296.70	3.68121	(09072619)
478639.90	3716237.60	5.40773	(09072619)	478661.72	3716250.85	5.10686	(09072619)
478677.78	3716255.94	4.94768	(09072619)	478692.90	3716252.46	4.87496	(09072619)
478708.56	3716251.39	4.78260	(09072619)	478724.49	3716252.33	4.67813	(09072619)
478743.90	3716254.87	4.54862	(09072619)	478760.50	3716263.70	4.40131	(09072619)

478776.16 3716271.33 4.27608 (09072619)
478807.33 3716292.55 4.01600 (08100118)
478818.04 3716304.27 3.91446 (08100118)
478827.44 3716316.65 3.82127 (08062220)
478837.15 3716329.19 3.73214 (08062220)
478848.66 3716343.35 3.63434 (08062220)
478864.52 3716345.21 3.57158 (08062220)
478877.21 3716336.06 3.56676 (08100118)
478687.09 3716357.64 4.21997 (07110317)
478675.98 3716337.58 4.38464 (07110317)
478673.14 3716319.49 4.50639 (07110317)
478675.54 3716299.43 4.62701 (08062220)
478700.17 3716289.41 4.55267 (08062220)
478720.01 3716292.02 4.42851 (08062220)
478736.14 3716295.73 4.32420 (08062220)
478751.18 3716303.14 4.21054 (08062220)
478788.45 3716328.21 3.92409 (08062220)
478797.61 3716340.63 3.83330 (07110317)
478808.94 3716350.88 3.75001 (07110317)
478815.48 3716366.57 3.66762 (07110317)
478825.73 3716377.91 3.59183 (07110317)
478827.76 3716403.05 3.49957 (07110317)
478848.25 3716397.38 3.45372 (07110317)
478869.18 3716398.47 3.38494 (07110317)
478885.75 3716399.12 3.33156 (07110317)
478711.57 3716349.20 4.15132 (07110317)
478731.63 3716355.74 4.03247 (07110317)
478744.71 3716368.82 3.92010 (07110317)
478760.18 3716379.28 3.81669 (07110317)
478772.39 3716393.02 3.71778 (07110317)
478784.82 3716409.59 3.61311 (07110317)
478886.03 3716447.93 3.19569 (07110317)
478866.54 3716446.91 3.25119 (07110317)
478847.82 3716449.22 3.29507 (07110317)
478828.84 3716449.99 3.34426 (07110317)
478829.86 3716485.89 3.22923 (07110317)
478828.84 3716534.37 3.08082 (07110317)
478847.56 3716535.39 3.04016 (07110317)
478848.59 3716488.71 3.17566 (07110317)
478867.82 3716484.87 3.14062 (07110317)
478885.01 3716481.79 3.10744 (07110317)
478865.00 3716539.24 2.99429 (07110317)
478883.98 3716540.01 2.95455 (07110317)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL OLM

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

** CONC OF NO2 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	DATE (YYMMDDHH) GRID-ID
ALL	HIGH 1ST HIGH VALUE IS 5.47499 ON 09072619: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00) DC		

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

```
 *** AERMOD - VERSION  14134 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/18/14
 *** AERMET - VERSION  12345 ***   ***
***        10:31:52

PAGE  14
 **MODELOPTs:   NonDFAULT CONC      FLAT      FASTALL   OLM

 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of         1937 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of            0 Calm Hours Identified

 A Total of         1937 Missing Hours Identified (  4.42 Percent)


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


    ********   WARNING MESSAGES   ********
 CO W276      23       POLLID: Special proc for 1h-NO2/SO2 24hPM25 NAAQS
disabled      NO2 H1H
 CO W271      31       COCARD: O3FILE w/o O3VALs; full conv for hrs with
miss O3
 ME W396     482       MEOPEN: Met data from outdated version of AERMET,
version:        12345

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (PM10)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_PM10\9239_PM10.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC DRYDPLT FLAT  FASTALL
   AVERTIME 24 ANNUAL
   URBANOPT 2100516
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL 9239_PM10.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.055919
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000740     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000741     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000742     VOLUME   478135.765 3716327.756 0.0
```

```
   LOCATION L0000743     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0000744     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000745     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000746     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000747     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000748     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000749     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000750     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000751     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000752     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000753     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000754     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000755     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000756     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000757     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000758     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000759     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000760     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000761     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000762     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000763     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000764     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000765     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000766     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000767     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000768     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000769     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000770     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000771     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000772     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000773     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000774     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000775     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000776     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000777     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000778     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000779     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000780     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000781     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000782     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000783     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000784     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000785     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000786     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000787     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000788     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000789     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000790     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000791     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
```

```
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.055919
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000792     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000793     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000794     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000795     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000796     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000797     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000798     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000799     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000800     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000801     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000802     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000803     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000804     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000805     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000806     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000807     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000808     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000809     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000810     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000811     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000812     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000813     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000814     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000815     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000816     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000817     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000818     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000819     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000820     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000821     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000822     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000823     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000824     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000825     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000826     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000827     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000828     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000829     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000830     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000831     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000832     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000833     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000834     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000835     VOLUME   478678.869 3715773.055 0.0
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   LOCATION L0000836     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0000837     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000838     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000839     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000840     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000841     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000842     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000843     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000740     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000741     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000742     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000743     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000744     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000745     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000746     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000747     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000748     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000749     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000750     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000751     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000752     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000753     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000754     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000755     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000756     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000757     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000758     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000759     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000760     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000761     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000762     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000763     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000764     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000765     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000766     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000767     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000768     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000769     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000770     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000771     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000772     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000773     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000774     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000775     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000776     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000777     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000778     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000779     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000780     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000781     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000782     0.0010753654      0.00      8.74      2.72
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   SRCPARAM L0000783     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000784     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000785     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000786     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000787     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000788     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000789     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000790     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000791     0.0010753654      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000792     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000793     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000794     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000795     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000796     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000797     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000798     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000799     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000800     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000801     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000802     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000803     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000804     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000805     0.0010753654      0.00      8.74      2.72
   SRCPARAM L0000806     0.0010753654      0.00      8.74      2.72
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   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
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   DISCCART    478873.93   3716286.22
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   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
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   DISCCART    478818.04   3716304.27
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   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
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   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
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   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
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   DISCCART    478797.61   3716340.63
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RE FINISHED
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   PROFFILE ..\elsi8.PFL
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   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
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** AERMOD Output Pathway
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   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST 9239_PM10.AD\24H1GALL.PLT 31
   PLOTFILE ANNUAL ALL 9239_PM10.AD\AN00GALL.PLT 32
   SUMMFILE 9239_PM10.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
```

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

A Total of            0 Fatal Error Message(s)
A Total of            1 Warning Message(s)
A Total of            0 Informational Message(s)


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


   ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:36:57

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

                                             ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **PARTICLE DEPOSITION Data Provided.
 **Model Uses DRY DEPLETION.     DDPLETE  =  T
 **Model Uses WET DEPLETION.     WETDPLT  =  T

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  1 Short Term Average(s) of:  24-HR
     and Calculates ANNUAL Averages

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  PM_10

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_PM10.err
 **File for Summary of Results:   9239_PM10.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000740	3	0.10754E-02	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES
L0000741	3	0.10754E-02	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES
L0000742	3	0.10754E-02	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES
L0000743	3	0.10754E-02	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES
L0000744	3	0.10754E-02	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES
L0000745	3	0.10754E-02	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES
L0000746	3	0.10754E-02	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES
L0000747	3	0.10754E-02	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES
L0000748	3	0.10754E-02	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES
L0000749	3	0.10754E-02	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES
L0000750	3	0.10754E-02	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES
L0000751	3	0.10754E-02	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES
L0000752	3	0.10754E-02	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES
L0000753	3	0.10754E-02	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES
L0000754	3	0.10754E-02	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES

L0000755	3	0.10754E-02	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000756	3	0.10754E-02	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000757	3	0.10754E-02	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000758	3	0.10754E-02	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000759	3	0.10754E-02	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000760	3	0.10754E-02	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000761	3	0.10754E-02	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000762	3	0.10754E-02	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000763	3	0.10754E-02	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000764	3	0.10754E-02	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000765	3	0.10754E-02	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000766	3	0.10754E-02	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000767	3	0.10754E-02	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000768	3	0.10754E-02	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000769	3	0.10754E-02	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000770	3	0.10754E-02	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000771	3	0.10754E-02	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000772	3	0.10754E-02	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000773	3	0.10754E-02	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000774	3	0.10754E-02	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000775	3	0.10754E-02	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000776	3	0.10754E-02	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000777	3	0.10754E-02	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000778	3	0.10754E-02	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000779	3	0.10754E-02	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000780	3	0.10754E-02	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES
L0000781	3	0.10754E-02	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES
L0000782	3	0.10754E-02	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES
L0000783	3	0.10754E-02	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES
L0000784	3	0.10754E-02	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES
L0000785	3	0.10754E-02	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES
L0000786	3	0.10754E-02	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES
L0000787	3	0.10754E-02	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES
L0000788	3	0.10754E-02	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES
L0000789	3	0.10754E-02	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES
L0000790	3	0.10754E-02	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES
L0000791	3	0.10754E-02	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES
L0000792	3	0.10754E-02	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES
L0000793	3	0.10754E-02	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES
L0000794	3	0.10754E-02	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES

L0000795	3	0.10754E-02	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000796	3	0.10754E-02	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000797	3	0.10754E-02	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000798	3	0.10754E-02	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000799	3	0.10754E-02	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000800	3	0.10754E-02	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000801	3	0.10754E-02	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000802	3	0.10754E-02	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000803	3	0.10754E-02	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000804	3	0.10754E-02	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000805	3	0.10754E-02	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000806	3	0.10754E-02	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000807	3	0.10754E-02	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000808	3	0.10754E-02	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000809	3	0.10754E-02	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000810	3	0.10754E-02	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000811	3	0.10754E-02	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000812	3	0.10754E-02	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000813	3	0.10754E-02	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000814	3	0.10754E-02	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000815	3	0.10754E-02	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000816	3	0.10754E-02	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000817	3	0.10754E-02	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000818	3	0.10754E-02	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000819	3	0.10754E-02	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000820	3	0.10754E-02	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0000821	3	0.10754E-02	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0000822	3	0.10754E-02	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0000823	3	0.10754E-02	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0000824	3	0.10754E-02	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0000825	3	0.10754E-02	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0000826	3	0.10754E-02	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0000827	3	0.10754E-02	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0000828	3	0.10754E-02	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0000829	3	0.10754E-02	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0000830	3	0.10754E-02	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0000831	3	0.10754E-02	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0000832	3	0.10754E-02	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0000833	3	0.10754E-02	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0000834	3	0.10754E-02	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0000835	3	0.10754E-02	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES
L0000836	3	0.10754E-02	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0000837	3	0.10754E-02	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0000838	3	0.10754E-02	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0000839	3	0.10754E-02	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0000840	3	0.10754E-02	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0000841	3	0.10754E-02	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0000842	3	0.10754E-02	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0000843	3	0.10754E-02	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 ,
	L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 ,
	L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 ,
	L0000764 , L0000765 , L0000766 , L0000767 , L0000768 , L0000769 , L0000770 , L0000771 ,
	L0000772 , L0000773 , L0000774 , L0000775 , L0000776 , L0000777 , L0000778 , L0000779 ,
	L0000780 , L0000781 , L0000782 , L0000783 , L0000784 , L0000785 , L0000786 , L0000787 ,
	L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 , L0000794 , L0000795 ,
	L0000796 , L0000797 , L0000798 , L0000799 , L0000800 , L0000801 , L0000802 , L0000803 ,
	L0000804 , L0000805 , L0000806 , L0000807 , L0000808 , L0000809 , L0000810 , L0000811 ,
	L0000812 , L0000813 , L0000814 , L0000815 , L0000816 , L0000817 , L0000818 , L0000819 ,
	L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 , L0000827 ,
	L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , L0000834 , L0000835 ,

L0000836 , L0000837 , L0000838 , L0000839 ,
L0000840 , L0000841 , L0000842 , L0000843 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000740 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000741 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000742 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000743 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000744 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000745 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000746 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000747 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000748 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000749 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000750 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000751 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000752 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000753 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000754 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000755 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000756 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000757 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000758 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000759 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000760 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000761 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000762 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000763 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000764 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000765 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000766 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000767 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000768 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000769 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000770 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000771 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000772 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000773 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000774 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000775 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000776 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000777 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000778 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000779 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000780 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000781 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000782 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000783 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000784 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000785 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000786 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000787 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000788 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000789 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000790 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000791 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000792 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000793 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000794 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000795 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000796 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000797 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000798 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000799 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000800 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000801 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000802 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000803 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000804 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000805 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000806 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000807 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000808 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000809 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000810 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000811 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000812 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000813 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000814 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000815 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000816 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000817 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000818 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000819 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000820 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000821 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000822 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000823 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000824 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000825 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000826 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000827 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000828 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000829 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000830 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000831 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000832 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000833 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000834 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000835 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000836 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000837 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000838 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000839 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000840 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000841 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000842 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

*** SOURCE ID = L0000843 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.07870, 0.12920, 0.79220,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000, 10.00000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:36:57

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 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

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

   Surface file:   ..\elsi8.sfc
Met Version:  14134
   Profile file:   ..\elsi8.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3190                  Upper air station no.:
3190
                  Name: UNKNOWN                                     Name:
UNKNOWN
                  Year:   2008                                      Year:
2008

 First 24 hours of scalar data
 YR MO DY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN  Z0 BOWEN
ALB  REF WS   WD   HT  REF TA  HT IPCOD PRATE  RH SFCP CCVR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 08 01 01 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.54  999.00  999.  -9.  283.8   6.***  -9.00  999.  965.  0
 08 01 01 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0 0.23 1.00
0.33  999.00  999.  -9.  285.9   6.***  -9.00  999.  965.  0
 08 01 01 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0 0.23 1.00
0.25  999.00  999.  -9.  288.1   6.***  -9.00  999.  965.  0
 08 01 01 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  289.9   6.***  -9.00  999.  965.  0
 08 01 01 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  289.9   6.***  -9.00  999.  965.  0
```

```
 08 01 01 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  292.0   6.***  -9.00  999.  965.  0
 08 01 01 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0 0.23 1.00
0.27  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0 0.23 1.00
0.36  999.00  999.  -9.  290.4   6.***  -9.00  999.  965.  0
 08 01 01 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.63  999.00  999.  -9.  288.8   6.***  -9.00  999.  965.  0
 08 01 01 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  287.5   6.***  -9.00  999.  965.  0
 08 01 01 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  286.4   6.***  -9.00  999.  965.  0
 08 01 01 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  285.4   6.***  -9.00  999.  965.  0
 08 01 01 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  282.5   6.***  -9.00  999.  965.  0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 ,
L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 ,
L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 ,
L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
478677.13	3716198.67	0.90762	478691.64	3716202.66	0.85945
478707.50	3716202.08	0.82293	478722.13	3716203.48	0.78685
478738.32	3716207.75	0.74406	478755.66	3716207.18	0.71151
478771.82	3716215.80	0.66735	478786.68	3716223.30	0.63106
478802.87	3716229.99	0.59695	478813.58	3716240.83	0.56766
478826.70	3716247.92	0.54201	478839.28	3716257.16	0.51641
478853.06	3716264.52	0.49326	478860.94	3716277.90	0.47200
478873.93	3716286.22	0.45179	478893.91	3716296.70	0.42507
478639.90	3716237.60	0.89408	478661.72	3716250.85	0.80812
478677.78	3716255.94	0.76316	478692.90	3716252.46	0.74124
478708.56	3716251.39	0.71433	478724.49	3716252.33	0.68462

478743.90 3716254.87 0.64846
478760.50 3716263.70 0.60972
478776.16 3716271.33 0.57733
478807.33 3716292.55 0.51352
478818.04 3716304.27 0.48950
478827.44 3716316.65 0.46781
478837.15 3716329.19 0.44719
478848.66 3716343.35 0.42511
478864.52 3716345.21 0.41097
478877.21 3716336.06 0.40816
478687.09 3716357.64 0.56734
478675.98 3716337.58 0.61202
478673.14 3716319.49 0.64649
478675.54 3716299.43 0.67908
478700.17 3716289.41 0.65830
478720.01 3716292.02 0.62430
478736.14 3716295.73 0.59619
478751.18 3716303.14 0.56629
478788.45 3716328.21 0.49414
478797.61 3716340.63 0.47222
478808.94 3716350.88 0.45193
478815.48 3716366.57 0.43205
478825.73 3716377.91 0.41428
478827.76 3716403.05 0.39257
478848.25 3716397.38 0.38301
478869.18 3716398.47 0.36858
478885.75 3716399.12 0.35780
478711.57 3716349.20 0.55093
478731.63 3716355.74 0.52057
478744.71 3716368.82 0.49200
478760.18 3716379.28 0.46645
478772.39 3716393.02 0.44240
478784.82 3716409.59 0.41756
478886.03 3716447.93 0.32755
478866.54 3716446.91 0.33843
478847.82 3716449.22 0.34716
478828.84 3716449.99 0.35730
478829.86 3716485.89 0.33272
478828.84 3716534.37 0.30351
478847.56 3716535.39 0.29532
478848.59 3716488.71 0.32184
478867.82 3716484.87 0.31503
478885.01 3716481.79 0.30880
478865.00 3716539.24 0.28642
478883.98 3716540.01 0.27884

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 ,
L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 ,
L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 ,
L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	1.73064	(08012824)	478691.64	3716202.66	1.64126	(08012824)
478707.50	3716202.08	1.57153	(08012824)	478722.13	3716203.48	1.50676	(08012124)
478738.32	3716207.75	1.43226	(08122324)	478755.66	3716207.18	1.37858	(08122324)
478771.82	3716215.80	1.30723	(08122324)	478786.68	3716223.30	1.24762	(08122324)
478802.87	3716229.99	1.19285	(08101024)	478813.58	3716240.83	1.14790	(08101024)
478826.70	3716247.92	1.10712	(08101024)	478839.28	3716257.16	1.06639	(08101024)
478853.06	3716264.52	1.02856	(08101024)	478860.94	3716277.90	0.99531	(08101024)
478873.93	3716286.22	0.96165	(08101024)	478893.91	3716296.70	0.91587	(08101024)
478639.90	3716237.60	1.71810	(08012824)	478661.72	3716250.85	1.55974	(08012824)
478677.78	3716255.94	1.47552	(08122324)	478692.90	3716252.46	1.43919	(08122324)
478708.56	3716251.39	1.39494	(08122324)	478724.49	3716252.33	1.34605	(08122324)

478743.90 3716254.87 1.28595 (08122324)
478760.50 3716263.70 1.22428 (08101024)
478776.16 3716271.33 1.17347 (08101024)
478807.33 3716292.55 1.07240 (08101024)
478818.04 3716304.27 1.03427 (08101024)
478827.44 3716316.65 0.99966 (08101024)
478837.15 3716329.19 0.96620 (08101024)
478848.66 3716343.35 0.92965 (08101024)
478864.52 3716345.21 0.90389 (08101024)
478877.21 3716336.06 0.89618 (08101024)
478687.09 3716357.64 1.18315 (08101024)
478675.98 3716337.58 1.25282 (08101024)
478673.14 3716319.49 1.30379 (08101024)
478675.54 3716299.43 1.34945 (08101024)
478700.17 3716289.41 1.31191 (08101024)
478720.01 3716292.02 1.25741 (08101024)
478736.14 3716295.73 1.21240 (08101024)
478751.18 3716303.14 1.16500 (08101024)
478788.45 3716328.21 1.04917 (08101024)
478797.61 3716340.63 1.01392 (08101024)
478808.94 3716350.88 0.98025 (08101024)
478815.48 3716366.57 0.94776 (08101024)
478825.73 3716377.91 0.91745 (08101024)
478827.76 3716403.05 0.88153 (08101024)
478848.25 3716397.38 0.86248 (08101024)
478869.18 3716398.47 0.83504 (08101024)
478885.75 3716399.12 0.81418 (08101024)
478711.57 3716349.20 1.15276 (08101024)
478731.63 3716355.74 1.10217 (08101024)
478744.71 3716368.82 1.05533 (08101024)
478760.18 3716379.28 1.01223 (08101024)
478772.39 3716393.02 0.97155 (08101024)
478784.82 3716409.59 0.92894 (08101024)
478886.03 3716447.93 0.76303 (08101024)
478866.54 3716446.91 0.78446 (08101024)
478847.82 3716449.22 0.80188 (08101024)
478828.84 3716449.99 0.82162 (08101024)
478829.86 3716485.89 0.77872 (08101024)
478828.84 3716534.37 0.72571 (08101024)
478847.56 3716535.39 0.70966 (08101024)
478848.59 3716488.71 0.75771 (08101024)
478867.82 3716484.87 0.74367 (08101024)
478885.01 3716481.79 0.73071 (08101024)
478865.00 3716539.24 0.69215 (08101024)
478883.98 3716540.01 0.67689 (08101024)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

NETWORK GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG) OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.90762	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00) DC	
	2ND HIGHEST VALUE IS	0.89408	AT (478639.90, 3716237.60, 406.00, 406.00, 0.00) DC	
	3RD HIGHEST VALUE IS	0.85945	AT (478691.64, 3716202.66, 406.00, 406.00, 0.00) DC	
	4TH HIGHEST VALUE IS	0.82293	AT (478707.50, 3716202.08, 406.00, 406.00, 0.00) DC	
	5TH HIGHEST VALUE IS	0.80812	AT (478661.72, 3716250.85, 406.00, 406.00, 0.00) DC	
	6TH HIGHEST VALUE IS	0.78685	AT (478722.13, 3716203.48, 406.00, 406.00, 0.00) DC	
	7TH HIGHEST VALUE IS	0.76316	AT (478677.78, 3716255.94, 406.00, 406.00, 0.00) DC	
	8TH HIGHEST VALUE IS	0.74406	AT (478738.32, 3716207.75, 406.00, 406.00, 0.00) DC	
	9TH HIGHEST VALUE IS	0.74124	AT (478692.90, 3716252.46, 406.00, 406.00, 0.00) DC	
	10TH HIGHEST VALUE IS	0.71433	AT (478708.56, 3716251.39, 406.00, 406.00, 0.00) DC	

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

**MODELOPTs: NonDFAULT CONC FLAT
FASTALL
DRYDPLT WETDPLT

*** THE SUMMARY OF
HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN
MICROGRAMS/M**3 **

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

ALL HIGH 1ST HIGH VALUE IS 1.73064 ON 08012824: AT (
478677.13, 3716198.67, 406.00, 406.00, 0.00) DC

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:36:57

PAGE  48
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)

 Met Data File Includes       0.00 Millimeters (     0.000 Inches) of
Precipitation


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA
 MX W496   43849         MAIN: Total precipitation in SURFFILE is zero
(0.0) with     WetDepos

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (PM2.5)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_PM25\9239_PM25.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC DRYDPLT FLAT  FASTALL
   AVERTIME 24
   URBANOPT 2100516
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL 9239_PM25.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.01827
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ---------------------------------------------------------------------
   LOCATION L0000844     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000845     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000846     VOLUME   478135.765 3716327.756 0.0
```

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   LOCATION L0000847     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0000848     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000849     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000850     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000851     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000852     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000853     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000854     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000855     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000856     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000857     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000858     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000859     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000860     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000861     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000862     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000863     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000864     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000865     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000866     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000867     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000868     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000869     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000870     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000871     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000872     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000873     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000874     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000875     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000876     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000877     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000878     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000879     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000880     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000881     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000882     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000883     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000884     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000885     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000886     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000887     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000888     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000889     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000890     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000891     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000892     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000893     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000894     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000895     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
```

```
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.01827
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000896     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000897     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000898     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000899     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000900     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000901     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000902     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000903     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000904     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000905     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000906     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000907     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000908     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000909     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000910     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000911     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000912     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000913     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000914     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000915     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000916     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000917     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000918     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000919     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000920     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000921     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000922     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000923     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000924     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000925     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000926     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000927     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000928     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000929     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000930     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000931     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000932     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000933     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000934     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000935     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000936     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000937     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000938     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000939     VOLUME   478678.869 3715773.055 0.0
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   LOCATION L0000940     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0000941     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000942     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000943     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000944     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000945     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000946     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000947     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000844     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000845     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000846     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000847     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000848     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000849     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000850     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000851     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000852     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000853     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000854     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000855     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000856     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000857     0.0003513462      0.00      8.74      2.72
   SRCPARAM L0000858     0.0003513462      0.00      8.74      2.72
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   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
```

```
   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST 9239_PM25.AD\24H1GALL.PLT 31
   SUMMFILE 9239_PM25.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
```

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

**MODELOPTs: NonDFAULT CONC   FLAT FASTALL
DRYDPLT   WETDPLT

*** MODEL SETUP OPTIONS SUMMARY ***

- -

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

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**PARTICLE DEPOSITION Data Provided.
**Model Uses DRY DEPLETION.   DDPLETE = T
**Model Uses WET DEPLETION.   WETDPLT = T

**Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
for Total of   1 Urban Area(s):
Urban Population =   2100516.0 ; Urban Roughness Length = 1.000 m

**Model Allows User-Specified Options:
1. Stack-tip Downwash.
2. Model Assumes Receptors on FLAT Terrain.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Used.

**Other Options Specified:
FASTALL - Use effective sigma-y to optimize meander for
POINT and VOLUME sources, and hybrid approach
to optimize AREA sources (formerly TOXICS option)
TEMP_Sub - Meteorological data includes TEMP substitions

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 24-HR

**This Run Includes: 104 Source(s);   1 Source Group(s); and 67 Receptor(s)

**The Model Assumes A Pollutant Type of: PM_2.5

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

**The AERMET Input Meteorological Data Version Date: 14134

```
 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_PM25.err
 **File for Summary of Results:   9239_PM25.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000844	2	0.35135E-03	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES
L0000845	2	0.35135E-03	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES
L0000846	2	0.35135E-03	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES
L0000847	2	0.35135E-03	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES
L0000848	2	0.35135E-03	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES
L0000849	2	0.35135E-03	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES
L0000850	2	0.35135E-03	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES
L0000851	2	0.35135E-03	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES
L0000852	2	0.35135E-03	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES
L0000853	2	0.35135E-03	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES
L0000854	2	0.35135E-03	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES
L0000855	2	0.35135E-03	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES
L0000856	2	0.35135E-03	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES
L0000857	2	0.35135E-03	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES
L0000858	2	0.35135E-03	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES

L0000859	2	0.35135E-03	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000860	2	0.35135E-03	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000861	2	0.35135E-03	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000862	2	0.35135E-03	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000863	2	0.35135E-03	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000864	2	0.35135E-03	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000865	2	0.35135E-03	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000866	2	0.35135E-03	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000867	2	0.35135E-03	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000868	2	0.35135E-03	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000869	2	0.35135E-03	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000870	2	0.35135E-03	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000871	2	0.35135E-03	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000872	2	0.35135E-03	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000873	2	0.35135E-03	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000874	2	0.35135E-03	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000875	2	0.35135E-03	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000876	2	0.35135E-03	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000877	2	0.35135E-03	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000878	2	0.35135E-03	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000879	2	0.35135E-03	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000880	2	0.35135E-03	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000881	2	0.35135E-03	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000882	2	0.35135E-03	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000883	2	0.35135E-03	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000884	2	0.35135E-03	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES
L0000885	2	0.35135E-03	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES
L0000886	2	0.35135E-03	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES
L0000887	2	0.35135E-03	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES
L0000888	2	0.35135E-03	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES
L0000889	2	0.35135E-03	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES
L0000890	2	0.35135E-03	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES
L0000891	2	0.35135E-03	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES
L0000892	2	0.35135E-03	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES
L0000893	2	0.35135E-03	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES
L0000894	2	0.35135E-03	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES
L0000895	2	0.35135E-03	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES
L0000896	2	0.35135E-03	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES
L0000897	2	0.35135E-03	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES
L0000898	2	0.35135E-03	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES

L0000899	2	0.35135E-03	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000900	2	0.35135E-03	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000901	2	0.35135E-03	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000902	2	0.35135E-03	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000903	2	0.35135E-03	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000904	2	0.35135E-03	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000905	2	0.35135E-03	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000906	2	0.35135E-03	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000907	2	0.35135E-03	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000908	2	0.35135E-03	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000909	2	0.35135E-03	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000910	2	0.35135E-03	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000911	2	0.35135E-03	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000912	2	0.35135E-03	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000913	2	0.35135E-03	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000914	2	0.35135E-03	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000915	2	0.35135E-03	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000916	2	0.35135E-03	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000917	2	0.35135E-03	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000918	2	0.35135E-03	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000919	2	0.35135E-03	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000920	2	0.35135E-03	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000921	2	0.35135E-03	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000922	2	0.35135E-03	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000923	2	0.35135E-03	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000924	2	0.35135E-03	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0000925	2	0.35135E-03	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0000926	2	0.35135E-03	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0000927	2	0.35135E-03	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0000928	2	0.35135E-03	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0000929	2	0.35135E-03	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0000930	2	0.35135E-03	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0000931	2	0.35135E-03	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0000932	2	0.35135E-03	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0000933	2	0.35135E-03	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0000934	2	0.35135E-03	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0000935	2	0.35135E-03	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0000936	2	0.35135E-03	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0000937	2	0.35135E-03	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0000938	2	0.35135E-03	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0000939	2	0.35135E-03	478678.9	3715773.1	406.0	0.00	8.74	2.72	YES
L0000940	2	0.35135E-03	478692.7	3715760.3	406.0	0.00	8.74	2.72	YES
L0000941	2	0.35135E-03	478706.5	3715747.6	406.0	0.00	8.74	2.72	YES
L0000942	2	0.35135E-03	478720.3	3715734.8	406.0	0.00	8.74	2.72	YES
L0000943	2	0.35135E-03	478734.2	3715722.1	406.0	0.00	8.74	2.72	YES
L0000944	2	0.35135E-03	478748.0	3715709.4	406.0	0.00	8.74	2.72	YES
L0000945	2	0.35135E-03	478761.8	3715696.6	406.0	0.00	8.74	2.72	YES
L0000946	2	0.35135E-03	478775.7	3715683.9	406.0	0.00	8.74	2.72	YES
L0000947	2	0.35135E-03	478789.5	3715671.1	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000844 , L0000845 , L0000846 , L0000847 , L0000848 , L0000849 , L0000850 , L0000851 ,
	L0000852 , L0000853 , L0000854 , L0000855 , L0000856 , L0000857 , L0000858 , L0000859 ,
	L0000860 , L0000861 , L0000862 , L0000863 , L0000864 , L0000865 , L0000866 , L0000867 ,
	L0000868 , L0000869 , L0000870 , L0000871 , L0000872 , L0000873 , L0000874 , L0000875 ,
	L0000876 , L0000877 , L0000878 , L0000879 , L0000880 , L0000881 , L0000882 , L0000883 ,
	L0000884 , L0000885 , L0000886 , L0000887 , L0000888 , L0000889 , L0000890 , L0000891 ,
	L0000892 , L0000893 , L0000894 , L0000895 , L0000896 , L0000897 , L0000898 , L0000899 ,
	L0000900 , L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 ,
	L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 ,
	L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 ,
	L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , L0000929 , L0000930 , L0000931 ,
	L0000932 , L0000933 , L0000934 , L0000935 , L0000936 , L0000937 , L0000938 , L0000939 ,

L0000940 , L0000941 , L0000942 , L0000943 ,
L0000944 , L0000945 , L0000946 , L0000947 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000844 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000845 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000846 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000847 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000848 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000849 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000850 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000851 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000852 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000853 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000854 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000855 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000856 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000857 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000858 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000859 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000860 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000861 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000862 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000863 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000864 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000865 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000866 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000867 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000868 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000869 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000870 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000871 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000872 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000873 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000874 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000875 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000876 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000877 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000878 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000879 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000880 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000881 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000882 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000883 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000884 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000885 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000886 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000887 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000888 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000889 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000890 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000891 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000892 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000893 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000894 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000895 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000896 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000897 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000898 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000899 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000900 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000901 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000902 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000903 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000904 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000905 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000906 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000907 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000908 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000909 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000910 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000911 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000912 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000913 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000914 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000915 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000916 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000917 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000918 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000919 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000920 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000921 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000922 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000923 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000924 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000925 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000926 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000927 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000928 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000929 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000930 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000931 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000932 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000933 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000934 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000935 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000936 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000937 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000938 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000939 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000940 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000941 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000942 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000943 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000944 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000945 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** SOURCE PARTICULATE/GAS DATA ***

*** SOURCE ID = L0000946 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

*** SOURCE ID = L0000947 ; SOURCE TYPE = VOLUME ***

MASS FRACTION =
0.37850, 0.62150,

PARTICLE DIAMETER (MICRONS) =
1.00000, 2.50000,

PARTICLE DENSITY (G/CM**3) =
2.30000, 2.30000,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

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

Surface file: ..\elsi8.sfc
Met Version: 14134
Profile file: ..\elsi8.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3190 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2008 Year: 2008

First 24 hours of scalar data

YR	MO	DY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALB	REF WS	WD	HT	REF TA	HT	IPCOD	PRATE	RH	SFCP	CCVR
08	01	01	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	284.2	6.***	-9.00	999.	965.	0	
08	01	01	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.1	6.***	-9.00	999.	965.	0	
08	01	01	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.1	6.***	-9.00	999.	965.	0	
08	01	01	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.8	6.***	-9.00	999.	965.	0	
08	01	01	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.8	6.***	-9.00	999.	965.	0	
08	01	01	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.8	6.***	-9.00	999.	965.	0	
08	01	01	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.	283.1	6.***	-9.00	999.	965.	0	
08	01	01	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	0.54	999.00	999.	-9.	283.8	6.***	-9.00	999.	965.	0	
08	01	01	09	27.2	-9.000	-9.000	-9.000	60.	-999.	-99999.0	0.23	1.00	0.33	999.00	999.	-9.	285.9	6.***	-9.00	999.	965.	0	
08	01	01	10	74.6	-9.000	-9.000	-9.000	157.	-999.	-99999.0	0.23	1.00	0.25	999.00	999.	-9.	288.1	6.***	-9.00	999.	965.	0	
08	01	01	11	107.4	-9.000	-9.000	-9.000	375.	-999.	-99999.0	0.23	1.00	0.23	999.00	999.	-9.	289.9	6.***	-9.00	999.	965.	0	
08	01	01	12	122.7	-9.000	-9.000	-9.000	578.	-999.	-99999.0	0.23	1.00	0.22	999.00	999.	-9.	289.9	6.***	-9.00	999.	965.	0	

```
 08 01 01 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0 0.23 1.00
0.22  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0 0.23 1.00
0.23  999.00  999.  -9.  292.0   6.***  -9.00  999.  965.  0
 08 01 01 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0 0.23 1.00
0.27  999.00  999.  -9.  291.4   6.***  -9.00  999.  965.  0
 08 01 01 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0 0.23 1.00
0.36  999.00  999.  -9.  290.4   6.***  -9.00  999.  965.  0
 08 01 01 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
0.63  999.00  999.  -9.  288.8   6.***  -9.00  999.  965.  0
 08 01 01 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  287.5   6.***  -9.00  999.  965.  0
 08 01 01 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  286.4   6.***  -9.00  999.  965.  0
 08 01 01 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  285.4   6.***  -9.00  999.  965.  0
 08 01 01 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  284.2   6.***  -9.00  999.  965.  0
 08 01 01 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  283.1   6.***  -9.00  999.  965.  0
 08 01 01 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.23 1.00
1.00  999.00  999.  -9.  282.5   6.***  -9.00  999.  965.  0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000844 , L0000845 , L0000846 , L0000847 , L0000848 ,
L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 ,
L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 ,
L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.73587	(08012824)	478691.64	3716202.66	0.69976	(08012824)
478707.50	3716202.08	0.67140	(08012824)	478722.13	3716203.48	0.64338	(08012824)
478738.32	3716207.75	0.61018	(08012824)	478755.66	3716207.18	0.58430m	(10042124)
478771.82	3716215.80	0.55501m	(10042124)	478786.68	3716223.30	0.53091m	(10042124)
478802.87	3716229.99	0.50856m	(10042124)	478813.58	3716240.83	0.49035m	(10042924)
478826.70	3716247.92	0.47435m	(10042924)	478839.28	3716257.16	0.45797m	(10042924)
478853.06	3716264.52	0.44263m	(10042924)	478860.94	3716277.90	0.42868m	(10042924)
478873.93	3716286.22	0.41474m	(10042924)	478893.91	3716296.70	0.39575m	(10042924)
478639.90	3716237.60	0.73169	(08012824)	478661.72	3716250.85	0.66775	(08012824)
478677.78	3716255.94	0.63338	(08012824)	478692.90	3716252.46	0.61551	(08012824)
478708.56	3716251.39	0.59384	(08012824)	478724.49	3716252.33	0.56998	(08012824)

478743.90 3716254.87 0.54081 (08012824)
478760.50 3716263.70 0.51460m (10042924)
478776.16 3716271.33 0.49592m (10042924)
478807.33 3716292.55 0.45709m (10042924)
478818.04 3716304.27 0.44167m (10042924)
478827.44 3716316.65 0.42737m (10042924)
478837.15 3716329.19 0.41343m (10042924)
478848.66 3716343.35 0.39814m (10042924)
478864.52 3716345.21 0.38798m (10042924)
478877.21 3716336.06 0.38559m (10042924)
478687.09 3716357.64 0.48862 (08012824)
478675.98 3716337.58 0.52325 (08012824)
478673.14 3716319.49 0.54910 (08012824)
478675.54 3716299.43 0.57275 (08012824)
478700.17 3716289.41 0.55440 (08012824)
478720.01 3716292.02 0.52682 (08012824)
478736.14 3716295.73 0.50479m (10042924)
478751.18 3716303.14 0.48751m (10042924)
478788.45 3716328.21 0.44371m (10042924)
478797.61 3716340.63 0.42948m (10042924)
478808.94 3716350.88 0.41611m (10042924)
478815.48 3716366.57 0.40240m (10042924)
478825.73 3716377.91 0.39005m (10042924)
478827.76 3716403.05 0.37405m (10042924)
478848.25 3716397.38 0.36769m (10042924)
478869.18 3716398.47 0.35720m (10042924)
478885.75 3716399.12 0.34909m (10042924)
478711.57 3716349.20 0.47441 (08101024)
478731.63 3716355.74 0.45585m (10042924)
478744.71 3716368.82 0.43800m (10042924)
478760.18 3716379.28 0.42201m (10042924)
478772.39 3716393.02 0.40619m (10042924)
478784.82 3716409.59 0.38925m (10042924)
478886.03 3716447.93 0.32548m (10042924)
478866.54 3716446.91 0.33363m (10042924)
478847.82 3716449.22 0.33974m (10042924)
478828.84 3716449.99 0.34662m (10042924)
478829.86 3716485.89 0.32745 (08101024)
478828.84 3716534.37 0.30646 (08101024)
478847.56 3716535.39 0.30010 (08101024)
478848.59 3716488.71 0.31912 (08101024)
478867.82 3716484.87 0.31436m (10042924)
478885.01 3716481.79 0.30998m (10042924)
478865.00 3716539.24 0.29315 (08101024)
478883.98 3716540.01 0.28709 (08101024)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL
DRYDPLT WETDPLT

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

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

ALL HIGH 1ST HIGH VALUE IS 0.73587 ON 08012824: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00) DC

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        16:01:35

PAGE  46
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL
                        DRYDPLT   WETDPLT

 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)

 Met Data File Includes       0.00 Millimeters (     0.000 Inches) of
Precipitation


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


    ********   WARNING MESSAGES   ********
 ME W530     683       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA
 MX W496   43849         MAIN: Total precipitation in SURFFILE is zero
(0.0) with     WetDepos

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (TOG DIESEL)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_TOG
Diesel\9239_TOG Diesel.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC FLAT  FASTALL
   AVERTIME 1 8
   URBANOPT 2100516
   POLLUTID TOGDSL
   RUNORNOT RUN
   ERRORFIL "9239_TOG Diesel.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00039
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ---------------------------------------------------------------------
   LOCATION L0000844     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000845     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000846     VOLUME   478135.765 3716327.756 0.0
```

```
   LOCATION L0000847     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0000848     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000849     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000850     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000851     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000852     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000853     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000854     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000855     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000856     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000857     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000858     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000859     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000860     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000861     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000862     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000863     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000864     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000865     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000866     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000867     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000868     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000869     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000870     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000871     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000872     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000873     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000874     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000875     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000876     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000877     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000878     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000879     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000880     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000881     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000882     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000883     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000884     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000885     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000886     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000887     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000888     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000889     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000890     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000891     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000892     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000893     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000894     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000895     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
```

```
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00039
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000896     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000897     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000898     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000899     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000900     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000901     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000902     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000903     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000904     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000905     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000906     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000907     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000908     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000909     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000910     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000911     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000912     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000913     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000914     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000915     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000916     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000917     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000918     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000919     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000920     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000921     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000922     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000923     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000924     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000925     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000926     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000927     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000928     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000929     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000930     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000931     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000932     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000933     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000934     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000935     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000936     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000937     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000938     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000939     VOLUME   478678.869 3715773.055 0.0
```

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   LOCATION L0000940     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0000941     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000942     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000943     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000944     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000945     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000946     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000947     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000844     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000845     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000846     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000847     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000848     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000849     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000850     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000851     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000852     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000853     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000854     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000855     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000856     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000857     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000858     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000859     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000860     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000861     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000862     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000863     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000864     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000865     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000866     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000867     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000868     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000869     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000870     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000871     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000872     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000873     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000874     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000875     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000876     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000877     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000878     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000879     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000880     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000881     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000882     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000883     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000884     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000885     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000886     0.0000075      0.00      8.74      2.72
```

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   SRCPARAM L0000887     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000888     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000889     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000890     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000891     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000892     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000893     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000894     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000895     0.0000075      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000896     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000897     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000898     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000899     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000900     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000901     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000902     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000903     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000904     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000905     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000906     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000907     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000908     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000909     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000910     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000911     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000912     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000913     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000914     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000915     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000916     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000917     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000918     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000919     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000920     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000921     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000922     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000923     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000924     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000925     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000926     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000927     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000928     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000929     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000930     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000931     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000932     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000933     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000934     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000935     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000936     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000937     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000938     0.0000075      0.00      8.74      2.72
```

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   SRCPARAM L0000939     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000940     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000941     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000942     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000943     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000944     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000945     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000946     0.0000075      0.00      8.74      2.72
   SRCPARAM L0000947     0.0000075      0.00      8.74      2.72
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
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   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
```

```
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "9239_TOG DIESEL.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "9239_TOG DIESEL.AD\08H1GALL.PLT" 32
   SUMMFILE "9239_TOG Diesel.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:25:08

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  TOGDSL

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_TOG Diesel.err
 **File for Summary of Results:   9239_TOG Diesel.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000844	0	0.75000E-05	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES	
L0000845	0	0.75000E-05	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES	
L0000846	0	0.75000E-05	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES	
L0000847	0	0.75000E-05	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES	
L0000848	0	0.75000E-05	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES	
L0000849	0	0.75000E-05	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES	
L0000850	0	0.75000E-05	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES	
L0000851	0	0.75000E-05	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES	
L0000852	0	0.75000E-05	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES	
L0000853	0	0.75000E-05	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES	
L0000854	0	0.75000E-05	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES	
L0000855	0	0.75000E-05	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES	
L0000856	0	0.75000E-05	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES	
L0000857	0	0.75000E-05	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES	
L0000858	0	0.75000E-05	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES	

L0000859	0	0.75000E-05	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000860	0	0.75000E-05	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000861	0	0.75000E-05	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000862	0	0.75000E-05	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000863	0	0.75000E-05	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000864	0	0.75000E-05	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000865	0	0.75000E-05	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000866	0	0.75000E-05	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000867	0	0.75000E-05	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000868	0	0.75000E-05	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000869	0	0.75000E-05	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000870	0	0.75000E-05	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000871	0	0.75000E-05	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000872	0	0.75000E-05	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000873	0	0.75000E-05	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000874	0	0.75000E-05	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000875	0	0.75000E-05	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000876	0	0.75000E-05	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000877	0	0.75000E-05	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000878	0	0.75000E-05	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000879	0	0.75000E-05	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000880	0	0.75000E-05	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000881	0	0.75000E-05	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000882	0	0.75000E-05	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000883	0	0.75000E-05	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000884	0	0.75000E-05	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES	
L0000885	0	0.75000E-05	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES	
L0000886	0	0.75000E-05	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES	
L0000887	0	0.75000E-05	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES	
L0000888	0	0.75000E-05	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES	
L0000889	0	0.75000E-05	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES	
L0000890	0	0.75000E-05	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES	
L0000891	0	0.75000E-05	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES	
L0000892	0	0.75000E-05	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES	
L0000893	0	0.75000E-05	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES	
L0000894	0	0.75000E-05	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES	
L0000895	0	0.75000E-05	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES	
L0000896	0	0.75000E-05	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES	
L0000897	0	0.75000E-05	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES	
L0000898	0	0.75000E-05	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES	

L0000899	0	0.75000E-05	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000900	0	0.75000E-05	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000901	0	0.75000E-05	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000902	0	0.75000E-05	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000903	0	0.75000E-05	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000904	0	0.75000E-05	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000905	0	0.75000E-05	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000906	0	0.75000E-05	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000907	0	0.75000E-05	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000908	0	0.75000E-05	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000909	0	0.75000E-05	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000910	0	0.75000E-05	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000911	0	0.75000E-05	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000912	0	0.75000E-05	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000913	0	0.75000E-05	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000914	0	0.75000E-05	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000915	0	0.75000E-05	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000916	0	0.75000E-05	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000917	0	0.75000E-05	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000918	0	0.75000E-05	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000919	0	0.75000E-05	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000920	0	0.75000E-05	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000921	0	0.75000E-05	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000922	0	0.75000E-05	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000923	0	0.75000E-05	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000924	0	0.75000E-05	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES	
L0000925	0	0.75000E-05	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES	
L0000926	0	0.75000E-05	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES	
L0000927	0	0.75000E-05	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES	
L0000928	0	0.75000E-05	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES	
L0000929	0	0.75000E-05	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES	
L0000930	0	0.75000E-05	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES	
L0000931	0	0.75000E-05	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES	
L0000932	0	0.75000E-05	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES	
L0000933	0	0.75000E-05	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES	
L0000934	0	0.75000E-05	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES	
L0000935	0	0.75000E-05	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES	
L0000936	0	0.75000E-05	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES	
L0000937	0	0.75000E-05	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES	
L0000938	0	0.75000E-05	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES	

L0000939		0	0.75000E-05	478678.9	3715773.1	406.0	0.00	8.74	2.72
YES									
L0000940		0	0.75000E-05	478692.7	3715760.3	406.0	0.00	8.74	2.72
YES									
L0000941		0	0.75000E-05	478706.5	3715747.6	406.0	0.00	8.74	2.72
YES									
L0000942		0	0.75000E-05	478720.3	3715734.8	406.0	0.00	8.74	2.72
YES									
L0000943		0	0.75000E-05	478734.2	3715722.1	406.0	0.00	8.74	2.72
YES									
L0000944		0	0.75000E-05	478748.0	3715709.4	406.0	0.00	8.74	2.72
YES									
L0000945		0	0.75000E-05	478761.8	3715696.6	406.0	0.00	8.74	2.72
YES									
L0000946		0	0.75000E-05	478775.7	3715683.9	406.0	0.00	8.74	2.72
YES									
L0000947		0	0.75000E-05	478789.5	3715671.1	406.0	0.00	8.74	2.72
YES									

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000844 , L0000845 , L0000846 , L0000847 , L0000848 , L0000849 , L0000850 , L0000851 ,
	L0000852 , L0000853 , L0000854 , L0000855 , L0000856 , L0000857 , L0000858 , L0000859 ,
	L0000860 , L0000861 , L0000862 , L0000863 , L0000864 , L0000865 , L0000866 , L0000867 ,
	L0000868 , L0000869 , L0000870 , L0000871 , L0000872 , L0000873 , L0000874 , L0000875 ,
	L0000876 , L0000877 , L0000878 , L0000879 , L0000880 , L0000881 , L0000882 , L0000883 ,
	L0000884 , L0000885 , L0000886 , L0000887 , L0000888 , L0000889 , L0000890 , L0000891 ,
	L0000892 , L0000893 , L0000894 , L0000895 , L0000896 , L0000897 , L0000898 , L0000899 ,
	L0000900 , L0000901 , L0000902 , L0000903 , L0000904 , L0000905 , L0000906 , L0000907 ,
	L0000908 , L0000909 , L0000910 , L0000911 , L0000912 , L0000913 , L0000914 , L0000915 ,
	L0000916 , L0000917 , L0000918 , L0000919 , L0000920 , L0000921 , L0000922 , L0000923 ,
	L0000924 , L0000925 , L0000926 , L0000927 , L0000928 , L0000929 , L0000930 , L0000931 ,
	L0000932 , L0000933 , L0000934 , L0000935 , L0000936 , L0000937 , L0000938 , L0000939 ,

L0000940 , L0000941 , L0000942 , L0000943 ,
L0000944 , L0000945 , L0000946 , L0000947 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

(478677.1, 3716198.7, 406.0, 406.0, 0.0); (478691.6, 3716202.7, 406.0, 406.0, 0.0);
(478707.5, 3716202.1, 406.0, 406.0, 0.0); (478722.1, 3716203.5, 406.0, 406.0, 0.0);
(478738.3, 3716207.8, 406.0, 406.0, 0.0); (478755.7, 3716207.2, 406.0, 406.0, 0.0);
(478771.8, 3716215.8, 406.0, 406.0, 0.0); (478786.7, 3716223.3, 406.0, 406.0, 0.0);
(478802.9, 3716230.0, 406.0, 406.0, 0.0); (478813.6, 3716240.8, 406.0, 406.0, 0.0);
(478826.7, 3716247.9, 406.0, 406.0, 0.0); (478839.3, 3716257.2, 406.0, 406.0, 0.0);
(478853.1, 3716264.5, 406.0, 406.0, 0.0); (478860.9, 3716277.9, 406.0, 406.0, 0.0);
(478873.9, 3716286.2, 406.0, 406.0, 0.0); (478893.9, 3716296.7, 406.0, 406.0, 0.0);
(478639.9, 3716237.6, 406.0, 406.0, 0.0); (478661.7, 3716250.8, 406.0, 406.0, 0.0);
(478677.8, 3716255.9, 406.0, 406.0, 0.0); (478692.9, 3716252.5, 406.0, 406.0, 0.0);
(478708.6, 3716251.4, 406.0, 406.0, 0.0); (478724.5, 3716252.3, 406.0, 406.0, 0.0);
(478743.9, 3716254.9, 406.0, 406.0, 0.0); (478760.5, 3716263.7, 406.0, 406.0, 0.0);
(478776.2, 3716271.3, 406.0, 406.0, 0.0); (478807.3, 3716292.5, 406.0, 406.0, 0.0);
(478818.0, 3716304.3, 406.0, 406.0, 0.0); (478827.4, 3716316.6, 406.0, 406.0, 0.0);
(478837.1, 3716329.2, 406.0, 406.0, 0.0); (478848.7, 3716343.3, 406.0, 406.0, 0.0);
(478864.5, 3716345.2, 406.0, 406.0, 0.0); (478877.2, 3716336.1, 406.0, 406.0, 0.0);
(478687.1, 3716357.6, 406.0, 406.0, 0.0); (478676.0, 3716337.6, 406.0, 406.0, 0.0);
(478673.1, 3716319.5, 406.0, 406.0, 0.0); (478675.5, 3716299.4, 406.0, 406.0, 0.0);
(478700.2, 3716289.4, 406.0, 406.0, 0.0); (478720.0, 3716292.0, 406.0, 406.0, 0.0);

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:25:08

PAGE   8
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


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

   Surface file:   ..\elsi8.sfc
Met Version:  14134
   Profile file:   ..\elsi8.PFL
   Surface format: FREE
   Profile format: FREE
   Surface station no.:     3190                 Upper air station no.:
3190
                  Name: UNKNOWN                                     Name:
UNKNOWN
                  Year:   2008                                      Year:
2008

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0
BOWEN ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
 08 01 01   1 01 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 02 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 03 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 04 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 05 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 06 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 07 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 08 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.54  999.00  999.   -9.0  283.8    5.5
 08 01 01   1 09   27.2 -9.000 -9.000 -9.000   60. -999. -99999.0  0.23
1.00   0.33  999.00  999.   -9.0  285.9    5.5
 08 01 01   1 10   74.6 -9.000 -9.000 -9.000  157. -999. -99999.0  0.23
1.00   0.25  999.00  999.   -9.0  288.1    5.5
 08 01 01   1 11  107.4 -9.000 -9.000 -9.000  375. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  289.9    5.5
 08 01 01   1 12  122.7 -9.000 -9.000 -9.000  578. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  289.9    5.5
```

```
 08 01 01   1 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  292.0    5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0  0.23
1.00   0.27  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0  0.23
1.00   0.36  999.00  999.   -9.0  290.4    5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.63  999.00  999.   -9.0  288.8    5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  287.5    5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  286.4    5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  285.4    5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  282.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000844 , L0000845 , L0000846 , L0000847 , L0000848 ,
L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 ,
L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 ,
L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.03330	(10092718)	478691.64	3716202.66	0.03230	(10092718)
478707.50	3716202.08	0.03156	(10092718)	478722.13	3716203.48	0.03081	(10092718)
478738.32	3716207.75	0.02989	(09072619)	478755.66	3716207.18	0.02923	(09072619)
478771.82	3716215.80	0.02825	(09072619)	478786.68	3716223.30	0.02744	(12072419)
478802.87	3716229.99	0.02667	(12072419)	478813.58	3716240.83	0.02598	(12072419)
478826.70	3716247.92	0.02537	(12072419)	478839.28	3716257.16	0.02475	(12072419)
478853.06	3716264.52	0.02418	(12072419)	478860.94	3716277.90	0.02361	(12072419)
478873.93	3716286.22	0.02309	(12072419)	478893.91	3716296.70	0.02239	(12072419)
478639.90	3716237.60	0.03281	(12072419)	478661.72	3716250.85	0.03103	(12081019)
478677.78	3716255.94	0.03008	(12080919)	478692.90	3716252.46	0.02962	(12080919)
478708.56	3716251.39	0.02905	(12080919)	478724.49	3716252.33	0.02842	(12080919)

478743.90 3716254.87 0.02764 (12080919)
478760.50 3716263.70 0.02678 (12080919)
478776.16 3716271.33 0.02604 (12080919)
478807.33 3716292.55 0.02453 (12080919)
478818.04 3716304.27 0.02394 (12080919)
478827.44 3716316.65 0.02339 (12080919)
478837.15 3716329.19 0.02285 (12080919)
478848.66 3716343.35 0.02227 (12080919)
478864.52 3716345.21 0.02189 (12080919)
478877.21 3716336.06 0.02182 (12080919)
478687.09 3716357.64 0.02586 (12081019)
478675.98 3716337.58 0.02689 (12081019)
478673.14 3716319.49 0.02764 (12081019)
478675.54 3716299.43 0.02832 (12081019)
478700.17 3716289.41 0.02782 (12080919)
478720.01 3716292.02 0.02706 (12080919)
478736.14 3716295.73 0.02643 (12080919)
478751.18 3716303.14 0.02574 (12080919)
478788.45 3716328.21 0.02401 (12080919)
478797.61 3716340.63 0.02346 (12080919)
478808.94 3716350.88 0.02294 (12080919)
478815.48 3716366.57 0.02240 (12080919)
478825.73 3716377.91 0.02192 (12080919)
478827.76 3716403.05 0.02130 (12080919)
478848.25 3716397.38 0.02106 (12080919)
478869.18 3716398.47 0.02066 (12080919)
478885.75 3716399.12 0.02036 (12080919)
478711.57 3716349.20 0.02539 (12081019)
478731.63 3716355.74 0.02460 (12081019)
478744.71 3716368.82 0.02388 (12080919)
478760.18 3716379.28 0.02323 (12080919)
478772.39 3716393.02 0.02259 (12080919)
478784.82 3716409.59 0.02191 (12080919)
478886.03 3716447.93 0.01939 (12080919)
478866.54 3716446.91 0.01970 (12080919)
478847.82 3716449.22 0.01993 (12080919)
478828.84 3716449.99 0.02019 (12080919)
478829.86 3716485.89 0.01941 (12081019)
478828.84 3716534.37 0.01859 (12112818)
478847.56 3716535.39 0.01829 (12112818)
478848.59 3716488.71 0.01907 (08110202)
478867.82 3716484.87 0.01889 (12080919)
478885.01 3716481.79 0.01873 (12080919)
478865.00 3716539.24 0.01796 (12112818)
478883.98 3716540.01 0.01770 (08110202)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000844 , L0000845 , L0000846 , L0000847 , L0000848 ,
L0000849 , L0000850 , L0000851 , L0000852 , L0000853 , L0000854 , L0000855 , L0000856 ,
L0000857 , L0000858 , L0000859 , L0000860 , L0000861 , L0000862 , L0000863 , L0000864 ,
L0000865 , L0000866 , L0000867 , L0000868 , L0000869 , L0000870 , L0000871 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.02795	(09101924)	478691.64	3716202.66	0.02710	(09101924)
478707.50	3716202.08	0.02648	(09101924)	478722.13	3716203.48	0.02583	(09101924)
478738.32	3716207.75	0.02503	(09101924)	478755.66	3716207.18	0.02442	(09101924)
478771.82	3716215.80	0.02351	(09101924)	478786.68	3716223.30	0.02274	(09101924)
478802.87	3716229.99	0.02200	(09101924)	478813.58	3716240.83	0.02133	(09101924)
478826.70	3716247.92	0.02074	(09101924)	478839.28	3716257.16	0.02014	(09101924)
478853.06	3716264.52	0.01959	(09101924)	478860.94	3716277.90	0.01904	(09101924)
478873.93	3716286.22	0.01854	(09101924)	478893.91	3716296.70	0.01787	(09101924)
478639.90	3716237.60	0.02745	(09101924)	478661.72	3716250.85	0.02584	(09101924)
478677.78	3716255.94	0.02501	(09101924)	478692.90	3716252.46	0.02465	(09101924)
478708.56	3716251.39	0.02417	(09101924)	478724.49	3716252.33	0.02361	(09101924)

478743.90 3716254.87 0.02290 (09101924)
478760.50 3716263.70 0.02207 (09101924)
478776.16 3716271.33 0.02135 (09101924)
478807.33 3716292.55 0.01986 (09101924)
478818.04 3716304.27 0.01925 (09101924)
478827.44 3716316.65 0.01869 (09101924)
478837.15 3716329.19 0.01813 (09101924)
478848.66 3716343.35 0.01753 (09101924)
478864.52 3716345.21 0.01720 (09101924)
478877.21 3716336.06 0.01721 (09101924)
478687.09 3716357.64 0.02026 (09101924)
478675.98 3716337.58 0.02137 (09101924)
478673.14 3716319.49 0.02223 (09101924)
478675.54 3716299.43 0.02307 (09101924)
478700.17 3716289.41 0.02279 (09101924)
478720.01 3716292.02 0.02213 (09101924)
478736.14 3716295.73 0.02155 (09101924)
478751.18 3716303.14 0.02089 (09101924)
478788.45 3716328.21 0.01916 (09101924)
478797.61 3716340.63 0.01858 (09101924)
478808.94 3716350.88 0.01804 (09101924)
478815.48 3716366.57 0.01746 (09101924)
478825.73 3716377.91 0.01696 (09101924)
478827.76 3716403.05 0.01621 (09101924)
478848.25 3716397.38 0.01608 (09101924)
478869.18 3716398.47 0.01576 (09101924)
478885.75 3716399.12 0.01551 (09101924)
478711.57 3716349.20 0.02008 (09101924)
478731.63 3716355.74 0.01941 (09101924)
478744.71 3716368.82 0.01868 (09101924)
478760.18 3716379.28 0.01803 (09101924)
478772.39 3716393.02 0.01737 (09101924)
478784.82 3716409.59 0.01664 (09101924)
478886.03 3716447.93 0.01432 (09101924)
478866.54 3716446.91 0.01455 (09101924)
478847.82 3716449.22 0.01470 (09101924)
478828.84 3716449.99 0.01488 (09101924)
478829.86 3716485.89 0.01389 (09101924)
478828.84 3716534.37 0.01259 (09101924)
478847.56 3716535.39 0.01245 (09101924)
478848.59 3716488.71 0.01365 (09101924)
478867.82 3716484.87 0.01358 (09101924)
478885.01 3716481.79 0.01351 (09101924)
478865.00 3716539.24 0.01225 (09101924)
478883.98 3716540.01 0.01212 (09101924)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.03330	ON 10092718: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

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

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

ALL HIGH 1ST HIGH VALUE IS 0.02795 ON 09101924: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00) DC

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:25:08

PAGE  13
 **MODELOPTs:  NonDFAULT CONC                                      FLAT
FASTALL


 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

AERMOD MODEL OUTPUT SUMMARY FILE (TOG GAS)

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.5.0
** Lakes Environmental Software Inc.
** Date: 7/16/2014
** File: U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_TOG Gas\9239_TOG
Gas.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE U:\UcJobs\_09100-09500\_09300\09329\Aermod\9239_Base
file\9239_Base
   MODELOPT CONC FLAT  FASTALL
   AVERTIME 1 8 ANNUAL
   URBANOPT 2100516
   POLLUTID TOGGAS
   RUNORNOT RUN
   ERRORFIL "9239_TOG Gas.err"
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ---------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC NB Route 15
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00174
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478101.200, 3716359.603, 0.00, 0.00, 8.74
** 478820.423, 3715696.925, 0.00, 0.00, 8.74
** ---------------------------------------------------------------------
   LOCATION L0000740     VOLUME   478108.113 3716353.234 0.0
   LOCATION L0000741     VOLUME   478121.939 3716340.495 0.0
   LOCATION L0000742     VOLUME   478135.765 3716327.756 0.0
```

```
   LOCATION L0000743     VOLUME   478149.591 3716315.017 0.0
   LOCATION L0000744     VOLUME   478163.417 3716302.278 0.0
   LOCATION L0000745     VOLUME   478177.243 3716289.539 0.0
   LOCATION L0000746     VOLUME   478191.069 3716276.800 0.0
   LOCATION L0000747     VOLUME   478204.895 3716264.061 0.0
   LOCATION L0000748     VOLUME   478218.721 3716251.322 0.0
   LOCATION L0000749     VOLUME   478232.547 3716238.583 0.0
   LOCATION L0000750     VOLUME   478246.373 3716225.844 0.0
   LOCATION L0000751     VOLUME   478260.199 3716213.105 0.0
   LOCATION L0000752     VOLUME   478274.025 3716200.366 0.0
   LOCATION L0000753     VOLUME   478287.851 3716187.627 0.0
   LOCATION L0000754     VOLUME   478301.677 3716174.888 0.0
   LOCATION L0000755     VOLUME   478315.503 3716162.149 0.0
   LOCATION L0000756     VOLUME   478329.329 3716149.410 0.0
   LOCATION L0000757     VOLUME   478343.155 3716136.671 0.0
   LOCATION L0000758     VOLUME   478356.981 3716123.932 0.0
   LOCATION L0000759     VOLUME   478370.807 3716111.193 0.0
   LOCATION L0000760     VOLUME   478384.633 3716098.454 0.0
   LOCATION L0000761     VOLUME   478398.459 3716085.715 0.0
   LOCATION L0000762     VOLUME   478412.285 3716072.976 0.0
   LOCATION L0000763     VOLUME   478426.111 3716060.237 0.0
   LOCATION L0000764     VOLUME   478439.937 3716047.498 0.0
   LOCATION L0000765     VOLUME   478453.762 3716034.759 0.0
   LOCATION L0000766     VOLUME   478467.588 3716022.020 0.0
   LOCATION L0000767     VOLUME   478481.414 3716009.281 0.0
   LOCATION L0000768     VOLUME   478495.240 3715996.542 0.0
   LOCATION L0000769     VOLUME   478509.066 3715983.803 0.0
   LOCATION L0000770     VOLUME   478522.892 3715971.064 0.0
   LOCATION L0000771     VOLUME   478536.718 3715958.325 0.0
   LOCATION L0000772     VOLUME   478550.544 3715945.586 0.0
   LOCATION L0000773     VOLUME   478564.370 3715932.847 0.0
   LOCATION L0000774     VOLUME   478578.196 3715920.108 0.0
   LOCATION L0000775     VOLUME   478592.022 3715907.369 0.0
   LOCATION L0000776     VOLUME   478605.848 3715894.630 0.0
   LOCATION L0000777     VOLUME   478619.674 3715881.891 0.0
   LOCATION L0000778     VOLUME   478633.500 3715869.152 0.0
   LOCATION L0000779     VOLUME   478647.326 3715856.413 0.0
   LOCATION L0000780     VOLUME   478661.152 3715843.674 0.0
   LOCATION L0000781     VOLUME   478674.978 3715830.935 0.0
   LOCATION L0000782     VOLUME   478688.804 3715818.196 0.0
   LOCATION L0000783     VOLUME   478702.630 3715805.457 0.0
   LOCATION L0000784     VOLUME   478716.456 3715792.718 0.0
   LOCATION L0000785     VOLUME   478730.282 3715779.979 0.0
   LOCATION L0000786     VOLUME   478744.108 3715767.240 0.0
   LOCATION L0000787     VOLUME   478757.934 3715754.501 0.0
   LOCATION L0000788     VOLUME   478771.760 3715741.762 0.0
   LOCATION L0000789     VOLUME   478785.586 3715729.023 0.0
   LOCATION L0000790     VOLUME   478799.412 3715716.284 0.0
   LOCATION L0000791     VOLUME   478813.238 3715703.545 0.0
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC SB Route 15
```

```
** PREFIX
** Length of Side = 18.80
** Configuration = Adjacent
** Emission Rate = 0.00174
** Vertical Dimension = 5.85
** SZINIT = 2.72
** Nodes = 2
** 478077.439, 3716327.201, 0.00, 0.00, 8.74
** 478796.661, 3715664.523, 0.00, 0.00, 8.74
** ----------------------------------------------------------------------
   LOCATION L0000792     VOLUME   478084.352 3716320.832 0.0
   LOCATION L0000793     VOLUME   478098.177 3716308.093 0.0
   LOCATION L0000794     VOLUME   478112.003 3716295.354 0.0
   LOCATION L0000795     VOLUME   478125.829 3716282.615 0.0
   LOCATION L0000796     VOLUME   478139.655 3716269.876 0.0
   LOCATION L0000797     VOLUME   478153.481 3716257.137 0.0
   LOCATION L0000798     VOLUME   478167.307 3716244.398 0.0
   LOCATION L0000799     VOLUME   478181.133 3716231.659 0.0
   LOCATION L0000800     VOLUME   478194.959 3716218.920 0.0
   LOCATION L0000801     VOLUME   478208.785 3716206.181 0.0
   LOCATION L0000802     VOLUME   478222.611 3716193.442 0.0
   LOCATION L0000803     VOLUME   478236.437 3716180.703 0.0
   LOCATION L0000804     VOLUME   478250.263 3716167.964 0.0
   LOCATION L0000805     VOLUME   478264.089 3716155.225 0.0
   LOCATION L0000806     VOLUME   478277.915 3716142.486 0.0
   LOCATION L0000807     VOLUME   478291.741 3716129.747 0.0
   LOCATION L0000808     VOLUME   478305.567 3716117.008 0.0
   LOCATION L0000809     VOLUME   478319.393 3716104.269 0.0
   LOCATION L0000810     VOLUME   478333.219 3716091.530 0.0
   LOCATION L0000811     VOLUME   478347.045 3716078.791 0.0
   LOCATION L0000812     VOLUME   478360.871 3716066.052 0.0
   LOCATION L0000813     VOLUME   478374.697 3716053.313 0.0
   LOCATION L0000814     VOLUME   478388.523 3716040.574 0.0
   LOCATION L0000815     VOLUME   478402.349 3716027.835 0.0
   LOCATION L0000816     VOLUME   478416.175 3716015.096 0.0
   LOCATION L0000817     VOLUME   478430.001 3716002.357 0.0
   LOCATION L0000818     VOLUME   478443.827 3715989.618 0.0
   LOCATION L0000819     VOLUME   478457.653 3715976.879 0.0
   LOCATION L0000820     VOLUME   478471.479 3715964.140 0.0
   LOCATION L0000821     VOLUME   478485.305 3715951.401 0.0
   LOCATION L0000822     VOLUME   478499.131 3715938.662 0.0
   LOCATION L0000823     VOLUME   478512.957 3715925.923 0.0
   LOCATION L0000824     VOLUME   478526.783 3715913.184 0.0
   LOCATION L0000825     VOLUME   478540.609 3715900.445 0.0
   LOCATION L0000826     VOLUME   478554.435 3715887.706 0.0
   LOCATION L0000827     VOLUME   478568.261 3715874.967 0.0
   LOCATION L0000828     VOLUME   478582.087 3715862.228 0.0
   LOCATION L0000829     VOLUME   478595.913 3715849.489 0.0
   LOCATION L0000830     VOLUME   478609.739 3715836.750 0.0
   LOCATION L0000831     VOLUME   478623.565 3715824.011 0.0
   LOCATION L0000832     VOLUME   478637.391 3715811.272 0.0
   LOCATION L0000833     VOLUME   478651.217 3715798.533 0.0
   LOCATION L0000834     VOLUME   478665.043 3715785.794 0.0
   LOCATION L0000835     VOLUME   478678.869 3715773.055 0.0
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   LOCATION L0000836     VOLUME   478692.695 3715760.316 0.0
   LOCATION L0000837     VOLUME   478706.521 3715747.577 0.0
   LOCATION L0000838     VOLUME   478720.347 3715734.838 0.0
   LOCATION L0000839     VOLUME   478734.173 3715722.099 0.0
   LOCATION L0000840     VOLUME   478747.999 3715709.360 0.0
   LOCATION L0000841     VOLUME   478761.825 3715696.621 0.0
   LOCATION L0000842     VOLUME   478775.651 3715683.882 0.0
   LOCATION L0000843     VOLUME   478789.477 3715671.143 0.0
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000740     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000741     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000742     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000743     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000744     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000745     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000746     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000747     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000748     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000749     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000750     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000751     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000752     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000753     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000754     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000755     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000756     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000757     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000758     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000759     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000760     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000761     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000762     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000763     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000764     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000765     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000766     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000767     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000768     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000769     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000770     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000771     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000772     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000773     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000774     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000775     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000776     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000777     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000778     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000779     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000780     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000781     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000782     0.0000334615      0.00      8.74      2.72
```

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   SRCPARAM L0000783     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000784     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000785     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000786     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000787     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000788     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000789     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000790     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000791     0.0000334615      0.00      8.74      2.72
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000792     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000793     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000794     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000795     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000796     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000797     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000798     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000799     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000800     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000801     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000802     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000803     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000804     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000805     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000806     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000807     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000808     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000809     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000810     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000811     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000812     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000813     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000814     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000815     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000816     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000817     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000818     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000819     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000820     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000821     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000822     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000823     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000824     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000825     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000826     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000827     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000828     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000829     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000830     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000831     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000832     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000833     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000834     0.0000334615      0.00      8.74      2.72
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   SRCPARAM L0000835     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000836     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000837     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000838     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000839     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000840     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000841     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000842     0.0000334615      0.00      8.74      2.72
   SRCPARAM L0000843     0.0000334615      0.00      8.74      2.72
** ---------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    478677.13   3716198.67
   DISCCART    478691.64   3716202.66
   DISCCART    478707.50   3716202.08
   DISCCART    478722.13   3716203.48
   DISCCART    478738.32   3716207.75
   DISCCART    478755.66   3716207.18
   DISCCART    478771.82   3716215.80
   DISCCART    478786.68   3716223.30
   DISCCART    478802.87   3716229.99
   DISCCART    478813.58   3716240.83
   DISCCART    478826.70   3716247.92
   DISCCART    478839.28   3716257.16
   DISCCART    478853.06   3716264.52
   DISCCART    478860.94   3716277.90
   DISCCART    478873.93   3716286.22
   DISCCART    478893.91   3716296.70
   DISCCART    478639.90   3716237.60
   DISCCART    478661.72   3716250.85
   DISCCART    478677.78   3716255.94
   DISCCART    478692.90   3716252.46
   DISCCART    478708.56   3716251.39
   DISCCART    478724.49   3716252.33
   DISCCART    478743.90   3716254.87
   DISCCART    478760.50   3716263.70
   DISCCART    478776.16   3716271.33
   DISCCART    478807.33   3716292.55
   DISCCART    478818.04   3716304.27
   DISCCART    478827.44   3716316.65
   DISCCART    478837.15   3716329.19
   DISCCART    478848.66   3716343.35
   DISCCART    478864.52   3716345.21
   DISCCART    478877.21   3716336.06
   DISCCART    478687.09   3716357.64
```

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   DISCCART    478675.98   3716337.58
   DISCCART    478673.14   3716319.49
   DISCCART    478675.54   3716299.43
   DISCCART    478700.17   3716289.41
   DISCCART    478720.01   3716292.02
   DISCCART    478736.14   3716295.73
   DISCCART    478751.18   3716303.14
   DISCCART    478788.45   3716328.21
   DISCCART    478797.61   3716340.63
   DISCCART    478808.94   3716350.88
   DISCCART    478815.48   3716366.57
   DISCCART    478825.73   3716377.91
   DISCCART    478827.76   3716403.05
   DISCCART    478848.25   3716397.38
   DISCCART    478869.18   3716398.47
   DISCCART    478885.75   3716399.12
   DISCCART    478711.57   3716349.20
   DISCCART    478731.63   3716355.74
   DISCCART    478744.71   3716368.82
   DISCCART    478760.18   3716379.28
   DISCCART    478772.39   3716393.02
   DISCCART    478784.82   3716409.59
   DISCCART    478886.03   3716447.93
   DISCCART    478866.54   3716446.91
   DISCCART    478847.82   3716449.22
   DISCCART    478828.84   3716449.99
   DISCCART    478829.86   3716485.89
   DISCCART    478828.84   3716534.37
   DISCCART    478847.56   3716535.39
   DISCCART    478848.59   3716488.71
   DISCCART    478867.82   3716484.87
   DISCCART    478885.01   3716481.79
   DISCCART    478865.00   3716539.24
   DISCCART    478883.98   3716540.01
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\elsi8.sfc
   PROFFILE ..\elsi8.PFL
   SURFDATA 3190 2008
   UAIRDATA 3190 2008
   SITEDATA 99999 2008
   PROFBASE 406.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
```

```
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "9239_TOG GAS.AD\01H1GALL.PLT" 31
   PLOTFILE 8 ALL 1ST "9239_TOG GAS.AD\08H1GALL.PLT" 32
   PLOTFILE ANNUAL ALL "9239_TOG GAS.AD\AN00GALL.PLT" 33
   SUMMFILE "9239_TOG Gas.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of            0 Informational Message(s)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:17:06

PAGE   1
 **MODELOPTs:  NonDFAULT CONC                                    FLAT
FASTALL


                                            ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -

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

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   104 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2100516.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Model Assumes Receptors on FLAT Terrain.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         FASTALL  - Use effective sigma-y to optimize meander for
                    POINT and VOLUME sources, and hybrid approach
                    to optimize AREA sources (formerly TOXICS option)
         TEMP_Sub - Meteorological data includes TEMP substitions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  2 Short Term Average(s) of:   1-HR   8-HR
     and Calculates ANNUAL Averages

 **This Run Includes:    104 Source(s);       1 Source Group(s); and
67 Receptor(s)

 **The Model Assumes A Pollutant Type of:  TOGGAS

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

 **The AERMET Input Meteorological Data Version Date:  14134
```

```
 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

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

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   406.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **Detailed Error/Message File:   9239_TOG Gas.err
 **File for Summary of Results:   9239_TOG Gas.sum
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0000740	0	0.33462E-04	478108.1	3716353.2	406.0	0.00	8.74	2.72	YES	
L0000741	0	0.33462E-04	478121.9	3716340.5	406.0	0.00	8.74	2.72	YES	
L0000742	0	0.33462E-04	478135.8	3716327.8	406.0	0.00	8.74	2.72	YES	
L0000743	0	0.33462E-04	478149.6	3716315.0	406.0	0.00	8.74	2.72	YES	
L0000744	0	0.33462E-04	478163.4	3716302.3	406.0	0.00	8.74	2.72	YES	
L0000745	0	0.33462E-04	478177.2	3716289.5	406.0	0.00	8.74	2.72	YES	
L0000746	0	0.33462E-04	478191.1	3716276.8	406.0	0.00	8.74	2.72	YES	
L0000747	0	0.33462E-04	478204.9	3716264.1	406.0	0.00	8.74	2.72	YES	
L0000748	0	0.33462E-04	478218.7	3716251.3	406.0	0.00	8.74	2.72	YES	
L0000749	0	0.33462E-04	478232.5	3716238.6	406.0	0.00	8.74	2.72	YES	
L0000750	0	0.33462E-04	478246.4	3716225.8	406.0	0.00	8.74	2.72	YES	
L0000751	0	0.33462E-04	478260.2	3716213.1	406.0	0.00	8.74	2.72	YES	
L0000752	0	0.33462E-04	478274.0	3716200.4	406.0	0.00	8.74	2.72	YES	
L0000753	0	0.33462E-04	478287.9	3716187.6	406.0	0.00	8.74	2.72	YES	
L0000754	0	0.33462E-04	478301.7	3716174.9	406.0	0.00	8.74	2.72	YES	

L0000755	0	0.33462E-04	478315.5	3716162.1	406.0	0.00	8.74	2.72	YES
L0000756	0	0.33462E-04	478329.3	3716149.4	406.0	0.00	8.74	2.72	YES
L0000757	0	0.33462E-04	478343.2	3716136.7	406.0	0.00	8.74	2.72	YES
L0000758	0	0.33462E-04	478357.0	3716123.9	406.0	0.00	8.74	2.72	YES
L0000759	0	0.33462E-04	478370.8	3716111.2	406.0	0.00	8.74	2.72	YES
L0000760	0	0.33462E-04	478384.6	3716098.5	406.0	0.00	8.74	2.72	YES
L0000761	0	0.33462E-04	478398.5	3716085.7	406.0	0.00	8.74	2.72	YES
L0000762	0	0.33462E-04	478412.3	3716073.0	406.0	0.00	8.74	2.72	YES
L0000763	0	0.33462E-04	478426.1	3716060.2	406.0	0.00	8.74	2.72	YES
L0000764	0	0.33462E-04	478439.9	3716047.5	406.0	0.00	8.74	2.72	YES
L0000765	0	0.33462E-04	478453.8	3716034.8	406.0	0.00	8.74	2.72	YES
L0000766	0	0.33462E-04	478467.6	3716022.0	406.0	0.00	8.74	2.72	YES
L0000767	0	0.33462E-04	478481.4	3716009.3	406.0	0.00	8.74	2.72	YES
L0000768	0	0.33462E-04	478495.2	3715996.5	406.0	0.00	8.74	2.72	YES
L0000769	0	0.33462E-04	478509.1	3715983.8	406.0	0.00	8.74	2.72	YES
L0000770	0	0.33462E-04	478522.9	3715971.1	406.0	0.00	8.74	2.72	YES
L0000771	0	0.33462E-04	478536.7	3715958.3	406.0	0.00	8.74	2.72	YES
L0000772	0	0.33462E-04	478550.5	3715945.6	406.0	0.00	8.74	2.72	YES
L0000773	0	0.33462E-04	478564.4	3715932.8	406.0	0.00	8.74	2.72	YES
L0000774	0	0.33462E-04	478578.2	3715920.1	406.0	0.00	8.74	2.72	YES
L0000775	0	0.33462E-04	478592.0	3715907.4	406.0	0.00	8.74	2.72	YES
L0000776	0	0.33462E-04	478605.8	3715894.6	406.0	0.00	8.74	2.72	YES
L0000777	0	0.33462E-04	478619.7	3715881.9	406.0	0.00	8.74	2.72	YES
L0000778	0	0.33462E-04	478633.5	3715869.2	406.0	0.00	8.74	2.72	YES
L0000779	0	0.33462E-04	478647.3	3715856.4	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000780	0	0.33462E-04	478661.2	3715843.7	406.0	0.00	8.74	2.72	YES
L0000781	0	0.33462E-04	478675.0	3715830.9	406.0	0.00	8.74	2.72	YES
L0000782	0	0.33462E-04	478688.8	3715818.2	406.0	0.00	8.74	2.72	YES
L0000783	0	0.33462E-04	478702.6	3715805.5	406.0	0.00	8.74	2.72	YES
L0000784	0	0.33462E-04	478716.5	3715792.7	406.0	0.00	8.74	2.72	YES
L0000785	0	0.33462E-04	478730.3	3715780.0	406.0	0.00	8.74	2.72	YES
L0000786	0	0.33462E-04	478744.1	3715767.2	406.0	0.00	8.74	2.72	YES
L0000787	0	0.33462E-04	478757.9	3715754.5	406.0	0.00	8.74	2.72	YES
L0000788	0	0.33462E-04	478771.8	3715741.8	406.0	0.00	8.74	2.72	YES
L0000789	0	0.33462E-04	478785.6	3715729.0	406.0	0.00	8.74	2.72	YES
L0000790	0	0.33462E-04	478799.4	3715716.3	406.0	0.00	8.74	2.72	YES
L0000791	0	0.33462E-04	478813.2	3715703.5	406.0	0.00	8.74	2.72	YES
L0000792	0	0.33462E-04	478084.4	3716320.8	406.0	0.00	8.74	2.72	YES
L0000793	0	0.33462E-04	478098.2	3716308.1	406.0	0.00	8.74	2.72	YES
L0000794	0	0.33462E-04	478112.0	3716295.4	406.0	0.00	8.74	2.72	YES

L0000795	0	0.33462E-04	478125.8	3716282.6	406.0	0.00	8.74	2.72	YES
L0000796	0	0.33462E-04	478139.7	3716269.9	406.0	0.00	8.74	2.72	YES
L0000797	0	0.33462E-04	478153.5	3716257.1	406.0	0.00	8.74	2.72	YES
L0000798	0	0.33462E-04	478167.3	3716244.4	406.0	0.00	8.74	2.72	YES
L0000799	0	0.33462E-04	478181.1	3716231.7	406.0	0.00	8.74	2.72	YES
L0000800	0	0.33462E-04	478195.0	3716218.9	406.0	0.00	8.74	2.72	YES
L0000801	0	0.33462E-04	478208.8	3716206.2	406.0	0.00	8.74	2.72	YES
L0000802	0	0.33462E-04	478222.6	3716193.4	406.0	0.00	8.74	2.72	YES
L0000803	0	0.33462E-04	478236.4	3716180.7	406.0	0.00	8.74	2.72	YES
L0000804	0	0.33462E-04	478250.3	3716168.0	406.0	0.00	8.74	2.72	YES
L0000805	0	0.33462E-04	478264.1	3716155.2	406.0	0.00	8.74	2.72	YES
L0000806	0	0.33462E-04	478277.9	3716142.5	406.0	0.00	8.74	2.72	YES
L0000807	0	0.33462E-04	478291.7	3716129.7	406.0	0.00	8.74	2.72	YES
L0000808	0	0.33462E-04	478305.6	3716117.0	406.0	0.00	8.74	2.72	YES
L0000809	0	0.33462E-04	478319.4	3716104.3	406.0	0.00	8.74	2.72	YES
L0000810	0	0.33462E-04	478333.2	3716091.5	406.0	0.00	8.74	2.72	YES
L0000811	0	0.33462E-04	478347.0	3716078.8	406.0	0.00	8.74	2.72	YES
L0000812	0	0.33462E-04	478360.9	3716066.1	406.0	0.00	8.74	2.72	YES
L0000813	0	0.33462E-04	478374.7	3716053.3	406.0	0.00	8.74	2.72	YES
L0000814	0	0.33462E-04	478388.5	3716040.6	406.0	0.00	8.74	2.72	YES
L0000815	0	0.33462E-04	478402.3	3716027.8	406.0	0.00	8.74	2.72	YES
L0000816	0	0.33462E-04	478416.2	3716015.1	406.0	0.00	8.74	2.72	YES
L0000817	0	0.33462E-04	478430.0	3716002.4	406.0	0.00	8.74	2.72	YES
L0000818	0	0.33462E-04	478443.8	3715989.6	406.0	0.00	8.74	2.72	YES
L0000819	0	0.33462E-04	478457.7	3715976.9	406.0	0.00	8.74	2.72	YES

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0000820	0	0.33462E-04	478471.5	3715964.1	406.0	0.00	8.74	2.72	YES
L0000821	0	0.33462E-04	478485.3	3715951.4	406.0	0.00	8.74	2.72	YES
L0000822	0	0.33462E-04	478499.1	3715938.7	406.0	0.00	8.74	2.72	YES
L0000823	0	0.33462E-04	478513.0	3715925.9	406.0	0.00	8.74	2.72	YES
L0000824	0	0.33462E-04	478526.8	3715913.2	406.0	0.00	8.74	2.72	YES
L0000825	0	0.33462E-04	478540.6	3715900.4	406.0	0.00	8.74	2.72	YES
L0000826	0	0.33462E-04	478554.4	3715887.7	406.0	0.00	8.74	2.72	YES
L0000827	0	0.33462E-04	478568.3	3715875.0	406.0	0.00	8.74	2.72	YES
L0000828	0	0.33462E-04	478582.1	3715862.2	406.0	0.00	8.74	2.72	YES
L0000829	0	0.33462E-04	478595.9	3715849.5	406.0	0.00	8.74	2.72	YES
L0000830	0	0.33462E-04	478609.7	3715836.8	406.0	0.00	8.74	2.72	YES
L0000831	0	0.33462E-04	478623.6	3715824.0	406.0	0.00	8.74	2.72	YES
L0000832	0	0.33462E-04	478637.4	3715811.3	406.0	0.00	8.74	2.72	YES
L0000833	0	0.33462E-04	478651.2	3715798.5	406.0	0.00	8.74	2.72	YES
L0000834	0	0.33462E-04	478665.0	3715785.8	406.0	0.00	8.74	2.72	YES

L0000835		0	0.33462E-04	478678.9	3715773.1	406.0	0.00	8.74	2.72
YES									
L0000836		0	0.33462E-04	478692.7	3715760.3	406.0	0.00	8.74	2.72
YES									
L0000837		0	0.33462E-04	478706.5	3715747.6	406.0	0.00	8.74	2.72
YES									
L0000838		0	0.33462E-04	478720.3	3715734.8	406.0	0.00	8.74	2.72
YES									
L0000839		0	0.33462E-04	478734.2	3715722.1	406.0	0.00	8.74	2.72
YES									
L0000840		0	0.33462E-04	478748.0	3715709.4	406.0	0.00	8.74	2.72
YES									
L0000841		0	0.33462E-04	478761.8	3715696.6	406.0	0.00	8.74	2.72
YES									
L0000842		0	0.33462E-04	478775.7	3715683.9	406.0	0.00	8.74	2.72
YES									
L0000843		0	0.33462E-04	478789.5	3715671.1	406.0	0.00	8.74	2.72
YES									

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 ,
	L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 ,
	L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 ,
	L0000764 , L0000765 , L0000766 , L0000767 , L0000768 , L0000769 , L0000770 , L0000771 ,
	L0000772 , L0000773 , L0000774 , L0000775 , L0000776 , L0000777 , L0000778 , L0000779 ,
	L0000780 , L0000781 , L0000782 , L0000783 , L0000784 , L0000785 , L0000786 , L0000787 ,
	L0000788 , L0000789 , L0000790 , L0000791 , L0000792 , L0000793 , L0000794 , L0000795 ,
	L0000796 , L0000797 , L0000798 , L0000799 , L0000800 , L0000801 , L0000802 , L0000803 ,
	L0000804 , L0000805 , L0000806 , L0000807 , L0000808 , L0000809 , L0000810 , L0000811 ,
	L0000812 , L0000813 , L0000814 , L0000815 , L0000816 , L0000817 , L0000818 , L0000819 ,
	L0000820 , L0000821 , L0000822 , L0000823 , L0000824 , L0000825 , L0000826 , L0000827 ,
	L0000828 , L0000829 , L0000830 , L0000831 , L0000832 , L0000833 , L0000834 , L0000835 ,

L0000836 , L0000837 , L0000838 , L0000839 ,
L0000840 , L0000841 , L0000842 , L0000843 ,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

```
     ( 478677.1, 3716198.7,     406.0,     406.0,       0.0);         (
478691.6, 3716202.7,     406.0,     406.0,       0.0);
     ( 478707.5, 3716202.1,     406.0,     406.0,       0.0);         (
478722.1, 3716203.5,     406.0,     406.0,       0.0);
     ( 478738.3, 3716207.8,     406.0,     406.0,       0.0);         (
478755.7, 3716207.2,     406.0,     406.0,       0.0);
     ( 478771.8, 3716215.8,     406.0,     406.0,       0.0);         (
478786.7, 3716223.3,     406.0,     406.0,       0.0);
     ( 478802.9, 3716230.0,     406.0,     406.0,       0.0);         (
478813.6, 3716240.8,     406.0,     406.0,       0.0);
     ( 478826.7, 3716247.9,     406.0,     406.0,       0.0);         (
478839.3, 3716257.2,     406.0,     406.0,       0.0);
     ( 478853.1, 3716264.5,     406.0,     406.0,       0.0);         (
478860.9, 3716277.9,     406.0,     406.0,       0.0);
     ( 478873.9, 3716286.2,     406.0,     406.0,       0.0);         (
478893.9, 3716296.7,     406.0,     406.0,       0.0);
     ( 478639.9, 3716237.6,     406.0,     406.0,       0.0);         (
478661.7, 3716250.8,     406.0,     406.0,       0.0);
     ( 478677.8, 3716255.9,     406.0,     406.0,       0.0);         (
478692.9, 3716252.5,     406.0,     406.0,       0.0);
     ( 478708.6, 3716251.4,     406.0,     406.0,       0.0);         (
478724.5, 3716252.3,     406.0,     406.0,       0.0);
     ( 478743.9, 3716254.9,     406.0,     406.0,       0.0);         (
478760.5, 3716263.7,     406.0,     406.0,       0.0);
     ( 478776.2, 3716271.3,     406.0,     406.0,       0.0);         (
478807.3, 3716292.5,     406.0,     406.0,       0.0);
     ( 478818.0, 3716304.3,     406.0,     406.0,       0.0);         (
478827.4, 3716316.6,     406.0,     406.0,       0.0);
     ( 478837.1, 3716329.2,     406.0,     406.0,       0.0);         (
478848.7, 3716343.3,     406.0,     406.0,       0.0);
     ( 478864.5, 3716345.2,     406.0,     406.0,       0.0);         (
478877.2, 3716336.1,     406.0,     406.0,       0.0);
     ( 478687.1, 3716357.6,     406.0,     406.0,       0.0);         (
478676.0, 3716337.6,     406.0,     406.0,       0.0);
     ( 478673.1, 3716319.5,     406.0,     406.0,       0.0);         (
478675.5, 3716299.4,     406.0,     406.0,       0.0);
     ( 478700.2, 3716289.4,     406.0,     406.0,       0.0);         (
478720.0, 3716292.0,     406.0,     406.0,       0.0);
```

(478736.1, 3716295.7, 406.0, 406.0, 0.0); (
478751.2, 3716303.1, 406.0, 406.0, 0.0);
(478788.5, 3716328.2, 406.0, 406.0, 0.0); (
478797.6, 3716340.6, 406.0, 406.0, 0.0);
(478808.9, 3716350.9, 406.0, 406.0, 0.0); (
478815.5, 3716366.6, 406.0, 406.0, 0.0);
(478825.7, 3716377.9, 406.0, 406.0, 0.0); (
478827.8, 3716403.0, 406.0, 406.0, 0.0);
(478848.2, 3716397.4, 406.0, 406.0, 0.0); (
478869.2, 3716398.5, 406.0, 406.0, 0.0);
(478885.8, 3716399.1, 406.0, 406.0, 0.0); (
478711.6, 3716349.2, 406.0, 406.0, 0.0);
(478731.6, 3716355.7, 406.0, 406.0, 0.0); (
478744.7, 3716368.8, 406.0, 406.0, 0.0);
(478760.2, 3716379.3, 406.0, 406.0, 0.0); (
478772.4, 3716393.0, 406.0, 406.0, 0.0);
(478784.8, 3716409.6, 406.0, 406.0, 0.0); (
478886.0, 3716447.9, 406.0, 406.0, 0.0);
(478866.5, 3716446.9, 406.0, 406.0, 0.0); (
478847.8, 3716449.2, 406.0, 406.0, 0.0);
(478828.8, 3716450.0, 406.0, 406.0, 0.0); (
478829.9, 3716485.9, 406.0, 406.0, 0.0);
(478828.8, 3716534.4, 406.0, 406.0, 0.0); (
478847.6, 3716535.4, 406.0, 406.0, 0.0);
(478848.6, 3716488.7, 406.0, 406.0, 0.0); (
478867.8, 3716484.9, 406.0, 406.0, 0.0);
(478885.0, 3716481.8, 406.0, 406.0, 0.0); (
478865.0, 3716539.2, 406.0, 406.0, 0.0);
(478884.0, 3716540.0, 406.0, 406.0, 0.0);

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

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

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

1.54, 3.09, 5.14, 8.23, 10.80,

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

Surface file: ..\elsi8.sfc
Met Version: 14134
Profile file: ..\elsi8.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3190 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2008 Year: 2008

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
08	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	284.2	5.5
08	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.1	5.5
08	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.1	5.5
08	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.8	5.5
08	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.8	5.5
08	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.8	5.5
08	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	1.00	999.00	999.	-9.0	283.1	5.5
08	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.23	1.00	0.54	999.00	999.	-9.0	283.8	5.5
08	01	01	1	09	27.2	-9.000	-9.000	-9.000	60.	-999.	-99999.0	0.23	1.00	0.33	999.00	999.	-9.0	285.9	5.5
08	01	01	1	10	74.6	-9.000	-9.000	-9.000	157.	-999.	-99999.0	0.23	1.00	0.25	999.00	999.	-9.0	288.1	5.5
08	01	01	1	11	107.4	-9.000	-9.000	-9.000	375.	-999.	-99999.0	0.23	1.00	0.23	999.00	999.	-9.0	289.9	5.5
08	01	01	1	12	122.7	-9.000	-9.000	-9.000	578.	-999.	-99999.0	0.23	1.00	0.22	999.00	999.	-9.0	289.9	5.5

```
 08 01 01   1 13  121.3 -9.000 -9.000 -9.000  714. -999. -99999.0  0.23
1.00   0.22  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 14  102.1 -9.000 -9.000 -9.000  763. -999. -99999.0  0.23
1.00   0.23  999.00  999.   -9.0  292.0    5.5
 08 01 01   1 15   65.8 -9.000 -9.000 -9.000  792. -999. -99999.0  0.23
1.00   0.27  999.00  999.   -9.0  291.4    5.5
 08 01 01   1 16   16.0 -9.000 -9.000 -9.000  798. -999. -99999.0  0.23
1.00   0.36  999.00  999.   -9.0  290.4    5.5
 08 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   0.63  999.00  999.   -9.0  288.8    5.5
 08 01 01   1 18 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  287.5    5.5
 08 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  286.4    5.5
 08 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  285.4    5.5
 08 01 01   1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  284.2    5.5
 08 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  283.1    5.5
 08 01 01   1 24 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.23
1.00   1.00  999.00  999.   -9.0  282.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 08 01 01 01    5.5 0 -999.  -99.00   284.3   99.0  -99.00  -99.00
 08 01 01 01    9.1 1 -999.  -99.00  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
478677.13	3716198.67	0.03475	478691.64	3716202.66	0.03294
478707.50	3716202.08	0.03157	478722.13	3716203.48	0.03021
478738.32	3716207.75	0.02861	478755.66	3716207.18	0.02738
478771.82	3716215.80	0.02572	478786.68	3716223.30	0.02435
478802.87	3716229.99	0.02307	478813.58	3716240.83	0.02197
478826.70	3716247.92	0.02100	478839.28	3716257.16	0.02003
478853.06	3716264.52	0.01916	478860.94	3716277.90	0.01836
478873.93	3716286.22	0.01759	478893.91	3716296.70	0.01658
478639.90	3716237.60	0.03425	478661.72	3716250.85	0.03102
478677.78	3716255.94	0.02933	478692.90	3716252.46	0.02851
478708.56	3716251.39	0.02749	478724.49	3716252.33	0.02638

478743.90	3716254.87	0.02501	478760.50	3716263.70	0.02355
478776.16	3716271.33	0.02233	478807.33	3716292.55	0.01993
478818.04	3716304.27	0.01902	478827.44	3716316.65	0.01820
478837.15	3716329.19	0.01742	478848.66	3716343.35	0.01658
478864.52	3716345.21	0.01605	478877.21	3716336.06	0.01594
478687.09	3716357.64	0.02196	478675.98	3716337.58	0.02365
478673.14	3716319.49	0.02495	478675.54	3716299.43	0.02617
478700.17	3716289.41	0.02539	478720.01	3716292.02	0.02411
478736.14	3716295.73	0.02305	478751.18	3716303.14	0.02192
478788.45	3716328.21	0.01919	478797.61	3716340.63	0.01837
478808.94	3716350.88	0.01760	478815.48	3716366.57	0.01684
478825.73	3716377.91	0.01617	478827.76	3716403.05	0.01535
478848.25	3716397.38	0.01498	478869.18	3716398.47	0.01444
478885.75	3716399.12	0.01403	478711.57	3716349.20	0.02134
478731.63	3716355.74	0.02020	478744.71	3716368.82	0.01911
478760.18	3716379.28	0.01815	478772.39	3716393.02	0.01724
478784.82	3716409.59	0.01629	478886.03	3716447.93	0.01287
478866.54	3716446.91	0.01329	478847.82	3716449.22	0.01362
478828.84	3716449.99	0.01400	478829.86	3716485.89	0.01307
478828.84	3716534.37	0.01195	478847.56	3716535.39	0.01164
478848.59	3716488.71	0.01265	478867.82	3716484.87	0.01239
478885.01	3716481.79	0.01216	478865.00	3716539.24	0.01130
478883.98	3716540.01	0.01101			

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 ,
L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 ,
L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 ,
L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.14857	(10092718)	478691.64	3716202.66	0.14409	(10092718)
478707.50	3716202.08	0.14081	(10092718)	478722.13	3716203.48	0.13747	(10092718)
478738.32	3716207.75	0.13337	(09072619)	478755.66	3716207.18	0.13041	(09072619)
478771.82	3716215.80	0.12605	(09072619)	478786.68	3716223.30	0.12241	(12072419)
478802.87	3716229.99	0.11900	(12072419)	478813.58	3716240.83	0.11589	(12072419)
478826.70	3716247.92	0.11320	(12072419)	478839.28	3716257.16	0.11042	(12072419)
478853.06	3716264.52	0.10790	(12072419)	478860.94	3716277.90	0.10534	(12072419)
478873.93	3716286.22	0.10301	(12072419)	478893.91	3716296.70	0.09991	(12072419)
478639.90	3716237.60	0.14640	(12072419)	478661.72	3716250.85	0.13845	(12081019)
478677.78	3716255.94	0.13421	(12080919)	478692.90	3716252.46	0.13215	(12080919)
478708.56	3716251.39	0.12962	(12080919)	478724.49	3716252.33	0.12679	(12080919)

478743.90 3716254.87 0.12331 (12080919)
478760.50 3716263.70 0.11947 (12080919)
478776.16 3716271.33 0.11619 (12080919)
478807.33 3716292.55 0.10945 (12080919)
478818.04 3716304.27 0.10680 (12080919)
478827.44 3716316.65 0.10435 (12080919)
478837.15 3716329.19 0.10196 (12080919)
478848.66 3716343.35 0.09935 (12080919)
478864.52 3716345.21 0.09767 (12080919)
478877.21 3716336.06 0.09737 (12080919)
478687.09 3716357.64 0.11538 (12081019)
478675.98 3716337.58 0.11996 (12081019)
478673.14 3716319.49 0.12332 (12081019)
478675.54 3716299.43 0.12635 (12081019)
478700.17 3716289.41 0.12411 (12080919)
478720.01 3716292.02 0.12074 (12080919)
478736.14 3716295.73 0.11791 (12080919)
478751.18 3716303.14 0.11484 (12080919)
478788.45 3716328.21 0.10712 (12080919)
478797.61 3716340.63 0.10465 (12080919)
478808.94 3716350.88 0.10233 (12080919)
478815.48 3716366.57 0.09996 (12080919)
478825.73 3716377.91 0.09782 (12080919)
478827.76 3716403.05 0.09501 (12080919)
478848.25 3716397.38 0.09395 (12080919)
478869.18 3716398.47 0.09220 (12080919)
478885.75 3716399.12 0.09085 (12080919)
478711.57 3716349.20 0.11326 (12081019)
478731.63 3716355.74 0.10976 (12081019)
478744.71 3716368.82 0.10653 (12080919)
478760.18 3716379.28 0.10363 (12080919)
478772.39 3716393.02 0.10080 (12080919)
478784.82 3716409.59 0.09776 (12080919)
478886.03 3716447.93 0.08652 (12080919)
478866.54 3716446.91 0.08789 (12080919)
478847.82 3716449.22 0.08890 (12080919)
478828.84 3716449.99 0.09008 (12080919)
478829.86 3716485.89 0.08660 (12081019)
478828.84 3716534.37 0.08295 (12112818)
478847.56 3716535.39 0.08159 (12112818)
478848.59 3716488.71 0.08508 (08110202)
478867.82 3716484.87 0.08427 (12080919)
478885.01 3716481.79 0.08358 (12080919)
478865.00 3716539.24 0.08014 (12112818)
478883.98 3716540.01 0.07898 (08110202)

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000740 , L0000741 , L0000742 , L0000743 , L0000744 , L0000745 , L0000746 , L0000747 , L0000748 , L0000749 , L0000750 , L0000751 , L0000752 , L0000753 , L0000754 , L0000755 , L0000756 , L0000757 , L0000758 , L0000759 , L0000760 , L0000761 , L0000762 , L0000763 , L0000764 , L0000765 , L0000766 , L0000767 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
478677.13	3716198.67	0.12471	(09101924)	478691.64	3716202.66	0.12093	(09101924)
478707.50	3716202.08	0.11814	(09101924)	478722.13	3716203.48	0.11526	(09101924)
478738.32	3716207.75	0.11167	(09101924)	478755.66	3716207.18	0.10895	(09101924)
478771.82	3716215.80	0.10488	(09101924)	478786.68	3716223.30	0.10144	(09101924)
478802.87	3716229.99	0.09815	(09101924)	478813.58	3716240.83	0.09515	(09101924)
478826.70	3716247.92	0.09255	(09101924)	478839.28	3716257.16	0.08986	(09101924)
478853.06	3716264.52	0.08741	(09101924)	478860.94	3716277.90	0.08497	(09101924)
478873.93	3716286.22	0.08272	(09101924)	478893.91	3716296.70	0.07972	(09101924)
478639.90	3716237.60	0.12245	(09101924)	478661.72	3716250.85	0.11530	(09101924)
478677.78	3716255.94	0.11157	(09101924)	478692.90	3716252.46	0.10996	(09101924)
478708.56	3716251.39	0.10783	(09101924)	478724.49	3716252.33	0.10535	(09101924)

478743.90 3716254.87 0.10217 (09101924)
478760.50 3716263.70 0.09846 (09101924)
478776.16 3716271.33 0.09526 (09101924)
478807.33 3716292.55 0.08859 (09101924)
478818.04 3716304.27 0.08590 (09101924)
478827.44 3716316.65 0.08337 (09101924)
478837.15 3716329.19 0.08090 (09101924)
478848.66 3716343.35 0.07820 (09101924)
478864.52 3716345.21 0.07673 (09101924)
478877.21 3716336.06 0.07678 (09101924)
478687.09 3716357.64 0.09041 (09101924)
478675.98 3716337.58 0.09533 (09101924)
478673.14 3716319.49 0.09920 (09101924)
478675.54 3716299.43 0.10291 (09101924)
478700.17 3716289.41 0.10170 (09101924)
478720.01 3716292.02 0.09874 (09101924)
478736.14 3716295.73 0.09615 (09101924)
478751.18 3716303.14 0.09318 (09101924)
478788.45 3716328.21 0.08548 (09101924)
478797.61 3716340.63 0.08288 (09101924)
478808.94 3716350.88 0.08050 (09101924)
478815.48 3716366.57 0.07789 (09101924)
478825.73 3716377.91 0.07566 (09101924)
478827.76 3716403.05 0.07234 (09101924)
478848.25 3716397.38 0.07173 (09101924)
478869.18 3716398.47 0.07029 (09101924)
478885.75 3716399.12 0.06922 (09101924)
478711.57 3716349.20 0.08960 (09101924)
478731.63 3716355.74 0.08661 (09101924)
478744.71 3716368.82 0.08334 (09101924)
478760.18 3716379.28 0.08045 (09101924)
478772.39 3716393.02 0.07748 (09101924)
478784.82 3716409.59 0.07426 (09101924)
478886.03 3716447.93 0.06389 (09101924)
478866.54 3716446.91 0.06493 (09101924)
478847.82 3716449.22 0.06557 (09101924)
478828.84 3716449.99 0.06641 (09101924)
478829.86 3716485.89 0.06195 (09101924)
478828.84 3716534.37 0.05617 (09101924)
478847.56 3716535.39 0.05555 (09101924)
478848.59 3716488.71 0.06089 (09101924)
478867.82 3716484.87 0.06059 (09101924)
478885.01 3716481.79 0.06026 (09101924)
478865.00 3716539.24 0.05466 (09101924)
478883.98 3716540.01 0.05409 (09101924)

**MODELOPTs: NonDFAULT CONC   FLAT
FASTALL

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***

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

NETWORK GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.03475	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.03425	AT (478639.90, 3716237.60, 406.00, 406.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.03294	AT (478691.64, 3716202.66, 406.00, 406.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.03157	AT (478707.50, 3716202.08, 406.00, 406.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.03102	AT (478661.72, 3716250.85, 406.00, 406.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.03021	AT (478722.13, 3716203.48, 406.00, 406.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.02933	AT (478677.78, 3716255.94, 406.00, 406.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.02861	AT (478738.32, 3716207.75, 406.00, 406.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.02851	AT (478692.90, 3716252.46, 406.00, 406.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.02749	AT (478708.56, 3716251.39, 406.00, 406.00, 0.00)	DC	

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

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

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL HIGH 1ST HIGH VALUE IS	0.14857	ON 10092718:	AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

**MODELOPTs: NonDFAULT CONC FLAT FASTALL

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

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

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.12471	ON 09101924: AT (478677.13, 3716198.67, 406.00, 406.00, 0.00)	DC	

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

```
 *** AERMOD - VERSION  13350 ***   *** U:\UcJobs\_09100-
09500\_09300\09329\Aermod\9239_Base file\9239_Base  ***        07/16/14
 *** AERMET - VERSION  14134 ***   ***
***        15:17:06

PAGE  15
 **MODELOPTs:  NonDFAULT CONC                                      FLAT
FASTALL


 *** Message Summary : AERMOD Model Execution ***

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

 A Total of            0 Fatal Error Message(s)
 A Total of            1 Warning Message(s)
 A Total of         1916 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           10 Calm Hours Identified

 A Total of         1906 Missing Hours Identified (  4.35 Percent)


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


    ********   WARNING MESSAGES   ********
 ME W530     371       MEOPEN: CAUTION! Met Station ID Mismatch with
SURFFILE for     SURFDATA

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

APPENDIX 3.4:

AERMOD MODEL INPUT/OUTPUT FILES
(ELECTRONIC FORMAT, AVAILABLE ON REQUEST)