LOS VALLES PROJECT

Draft Environmental Impact Report

Volume III – Appendices

SCH No. 2013121056
Project No. 98-034
Revised Vesting Tentative Tract No. 52584
Variance No. 201300003
Conditional Use Permit No. 201300081
Oak Tree Permit No. 201300023
Environmental Assessment No. 201300138

Lead Agency:

County of Los Angeles
Department of Regional Planning
Land Divisions
320 West Temple Street, Room 1362
Los Angeles, CA 90012

Prepared by:

Impact Sciences, Inc.
28 N. Marengo Avenue
Pasadena, CA 91101

March 2016

APPENDIX 1.0-1

Notice of Preparation / Initial Study

NOTICE OF PREPARATION
NOTICE OF SCOPING MEETING

Date: December 19, 2013

Project Title: "Los Valles" **Applicant:** SFI Los Valles, LLC

Project No: 98-034
Case No(s): ENV 201300138, Revised TR52584, VAR201300003, CUP201300081, OAK201300023
APN(s): 2866-062-032, 2866-062-033, 3247-032-052

The County of Los Angeles will be the lead agency and will prepare an Environmental Impact Report (EIR) for the projects listed above. In compliance with Section 15082 of the State CEQA Guidelines, the County of Los Angeles is sending this Notice of Preparation (NOP) to responsible agencies, interested parties, and federal agencies that may be involved in approving or permitting the project, and to trustee agencies responsible for natural resources affected by the project. Within 44 days after receiving the Notice of Preparation, each agency shall provide the County of Los Angeles with specific details about the scope and content of the environmental information to be contained in the EIR related to that agency's area of statutory responsibility.

The purpose of this NOP is to solicit the views of your agency as to the scope and content of the environmental information germane to your agency's statutory responsibilities in connection with the proposed project. Your agency may need to use the EIR prepared by our agency when considering your permit or other approval for the project.

PROJECT LOCATION AND EXISTING CONDITIONS:

The property which is the subject of the EIR is comprised of 430.4 acres of land owned by the Applicant, located in the Castaic community of unincorporated Los Angeles County, north of Hasley Canyon Road near its intersection with Del Valle Road (the Property). Primary access to the Property is from Hasley Canyon Road. The Property is within the boundaries of the Castaic Area Community Standards District (CSD) (Los Angeles County Code section (LACC) 22.44.137); but outside of any specific sub-area (such as the "Hasley Canyon Area") per the CSD.

Current Site Condition: Based on land use approvals issued by the County in 2002—Vesting Tentative Tract Map (VTTM) No. 52584 and Conditional Use Permit (CUP)/Oak Tree Permit (OTP) Nos. 98-034-(5) (the Prior Entitlements), the prior owner of the Property commenced substantial grading of 209 single-family lots and a private golf course on the Property. In accordance with approvals granted in the Prior Entitlements, the Property owner undertook significant landform grading (in excess of 12 million combined cubic yards) and infrastructure installation—including installation of electrical, storm drains, sewers, graded roadways, golf course fairways, and home pads and a 750,000-gallon water tank. Prior to grading in accordance with these authorized approvals, the Property included two ridgelines: an "easterly" ridgeline, located within the boundaries of VTTM No. 52584 Phase 1 (recorded) and Phase 2 (unrecorded) and the "westerly" ridgeline which traverses the Property from north to south and is located east of the connection with Barcelona Road on the north and east of Hasley Creek on the south. Although portions of these ridgelines were subsequently mapped by the County as significant primary and secondary ridgelines, as a result of grading authorized by the Prior Entitlements, areas of the "easterly" ridgeline designated by the County as primary significant ridgeline on the Property were almost entirely removed and areas designated as secondary ridgeline were removed or substantially degraded. The westerly ridgeline was also partially graded. The Property as a whole remains in this state, wherein about two-thirds of the site is substantially graded and the remaining portions less so graded or ungraded.

PROJECT DESCRIPTION

The Applicant is proposing construction of a single-family residential development of 497 dwelling units on lot sizes ranging from approximately 7,000 – 12,000 square feet, together with community amenities for residents and the public including a community recreation center controlled by a homeowner's association, an approximately 19 acre community park, seven private recreational lots, and approximately 5 miles of pedestrian trails and accompanying infrastructure and public and private roadways (the Project). Vehicular access into portions of the residential community is proposed to be restricted via security gates, though unobstructed pedestrian access will be maintained at all gated entry points. Approximately 232 acres, comprising over 50 percent of the Property, will be utilized as recreational and open space. The Project utilizes the existing infrastructure and grading work of the prior approved project (described below) to the maximum extent feasible, while removing the golf course and providing additional dwelling units and a greater variety of common recreational spaces. The Project is designed at a low urban density of approximately 1.2 dwelling units per gross acre and with lot sizes comparable to the more urban, single-family homes to the east and north, while mostly preserving a ridgeline (to the west) and providing open space buffers against the more rural, non-urban land use designations located offsite to the west and the commerce center located offsite to its south.

ENTITLEMENT REQUIREMENTS & DISCRETIONARY APPROVALS

The following approvals are requested as part of Project 98-034/Revised TR52584:

1. Revised Vesting Tentative Tract Map subdividing the Property into a total of 497 single-family lots, 13 open space lots, 7 recreation lots, one public park lot, one water tank lot, and seven debris basin lots, for a total of 526 lots. The proposed revised map would replace the existing VTTM 52584 and final tract map, which remain in effect.

2. Conditional Use Permits (CUP) authorizing (1) density-controlled development (LACC 22.24.150 & 22.56.205); (2) a CSD significant ridgeline exemption with respect to the westerly ridgeline for open space, construction of trails, landscape areas, stabilization of a pre-existing sand mining operation and access via extension of Barcelona Road and related infrastructure (LACC 22.44.137.D.6.d.i(B)); (3) development in accordance with the County's urban hillside management criteria (LACC 22.56.215); and (4) an on-site grading project involving more than 100,000 cubic yards of combined cut/fill (LACC 22.56.210). In addition, a CUP is requested for the installation of an additional 850,000-gallon water tank (LACC 22.24.150).

3. Oak Tree Permit for the removal of one or more protected oak trees on the Property.

4. Variance to authorize the non-exempted development of the easterly ridgeline, which is a mapped significant ridgeline located on the Property that has been substantially graded pursuant to the Prior Entitlements.

ENVIRONMENTAL ISSUES TO BE ANALYZED IN EIR

Upon review of the entitlement applications and completion of an Initial Study (attached), the County of Los Angeles Department of Regional Planning (DRP) has determined that an EIR is required to address the potential impacts associated with the proposed development. A list of the environmental issues to be addressed in the EIR, with a brief discussion about why the issue is included, is provided below.

Pursuant to State CEQA Guidelines §15063, the County of Los Angeles prepared an Initial Study (see attached Initial Study) and determined that a project EIR will be required for the project. The Initial Study provides a preliminary analysis of the potential environmental effects to be analyzed in the Los Valles EIR. The Initial Study (attached) determined that the Project may have potentially significant effects relative to various environmental categories. The County estimates that there will be significant or potentially significant environmental effects for all or nearly all of the environmental categories listed under CEQA. Each of the areas for which significant impacts or potentially significant impacts are

identified in the Initial Study will be addressed in the EIR and mitigation proposed where feasible and required by CEQA.

For example, the geotechnical analysis will include analysis of earthquake shaking, landslides, soil stability, expansive soils, soil erosion, liquefaction, lateral spreading, and consistency with the Hillside Management Ordinance. The hydrology/water quality analysis will include flooding potential given the proximity of the Property to Hasley Creek, groundwater impacts, drainage patterns, LID (low-impact development) ordinance consistency, construction and Project water runoff quality, and quantities. The air quality analysis will examine construction and operational regional and local air emissions generated by the Project as well as the potential for cumulatively considerable Greenhouse Gas Emissions, and the biological resources section will examine impacts of the Project to sensitive habitats, County-protected oak trees, and any Threatened, Endangered, or otherwise special-status species. The cultural resources analysis will examine the likelihood of resource impacts to sensitive archaeological, paleontological or cultural resources; and the aesthetics and visual resources section of the EIR will include analysis of the aesthetic and visual impacts of the Project on the environment, including landform alteration, ridgeline and viewshed impacts, and including "before" and "after" simulations of common views of the Property. The traffic/access analysis will examine the number of traffic trips generated by the Project and whether roadways would be able to accommodate the additional traffic. The noise section will address noise impacts resulting from construction and operation, including traffic noise impacts. The utilities section will address water resources (quantity and availability), solid waste services, electricity, and gas to determine needs of the project and determine the availability of existing services to meet those needs. Based upon the number of residential uses proposed, the Project would estimate the amount of wastewater generated and how it can be accommodated.

The EIR will also assess impacts to public services, including library services, school services and fire and sheriff services. The potential for hazards, including human-made hazards and fire hazards, will be analyzed. The EIR will also address impacts of the Project from a land use and population/housing standpoint, including consistency with adopted County land use and housing policies, "Healthy Design" policies and code standards, baseline subdivision and zoning regulations, and satisfying various Burdens of Proof for the proposed Variance, CUPs and Oak Tree Permit. The Project's population generation impacts will also be analyzed for their consistency with regional population, housing, and employment projections in the region. The recreational components of the Project will also be analyzed to determine how the Project will address recreational needs.

Additional Considerations: Surface water features on the Property subject to the regulatory authority of the U.S. Army Corps of Engineers and California Department of Fish and Wildlife are comprised of an unnamed stream that exits the Property at the westerly property line and a portion of Hasley Canyon Creek flowing southeasterly through the southwesterly portion of the Property. In addition, the far westerly portion of the Property is affected by out-flow from a County storm drain located north of the Property. Development in these areas of the Property has the potential to impact sensitive habitat including mainland cherry forest and oak woodlands. Nonetheless, as the creek and outflow areas are not proposed to be developed as part of the Project, direct impacts to these habitat areas are not anticipated. The Project proposes to preserve these areas as open space, including any cherry forest or oak woodlands. It is therefore anticipated that US Army Corps of Engineers, California Department of Fish and Wildlife and US Fish and Wildlife permits will not be required in connection with the Project. In the event that modifications to these areas or any jurisdictional waters on the Property are proposed at a later date, the EIR will analyze the potential impacts to these areas if any dredge and/or fill operations were to take place within the jurisdictional waters boundaries. The Project also proposes to remove one non-heritage oak tree, subject to provisions of the Los Angeles County Oak Tree Ordinance.
In addition, pursuant to agreements between the County, Los Angeles County Waterworks District No. 36 (the District) and the Applicant, the Applicant has constructed and dedicated a potable water well and water system improvements to the District, all of which have been accepted by the District and are operational.

In addition to evaluating the potential effects of the proposed project, the EIR will address a reasonable range of project alternatives. The EIR will also include all other sections required under the State CEQA Guidelines, including Growth Inducing Impacts, Effects Found Not To Be Significant, and a list of

organizations and persons involved in the preparation of the EIR. Appendices containing technical reports prepared in support of the EIR and all other required appendices (e.g. NOP, comments on NOP, Initial Study) will also be included.

SCOPING MEETING

A **Scoping Meeting** will be held to present the proposed project and to solicit suggestions from the public and responsible agencies on the content of the Draft EIR.

The Scoping Meeting will be held January 16, 2014 at 6:30 pm at the following location:

Live Oak Elementary School
27715 Saddleridge Way
Castaic, CA
661.257.4540

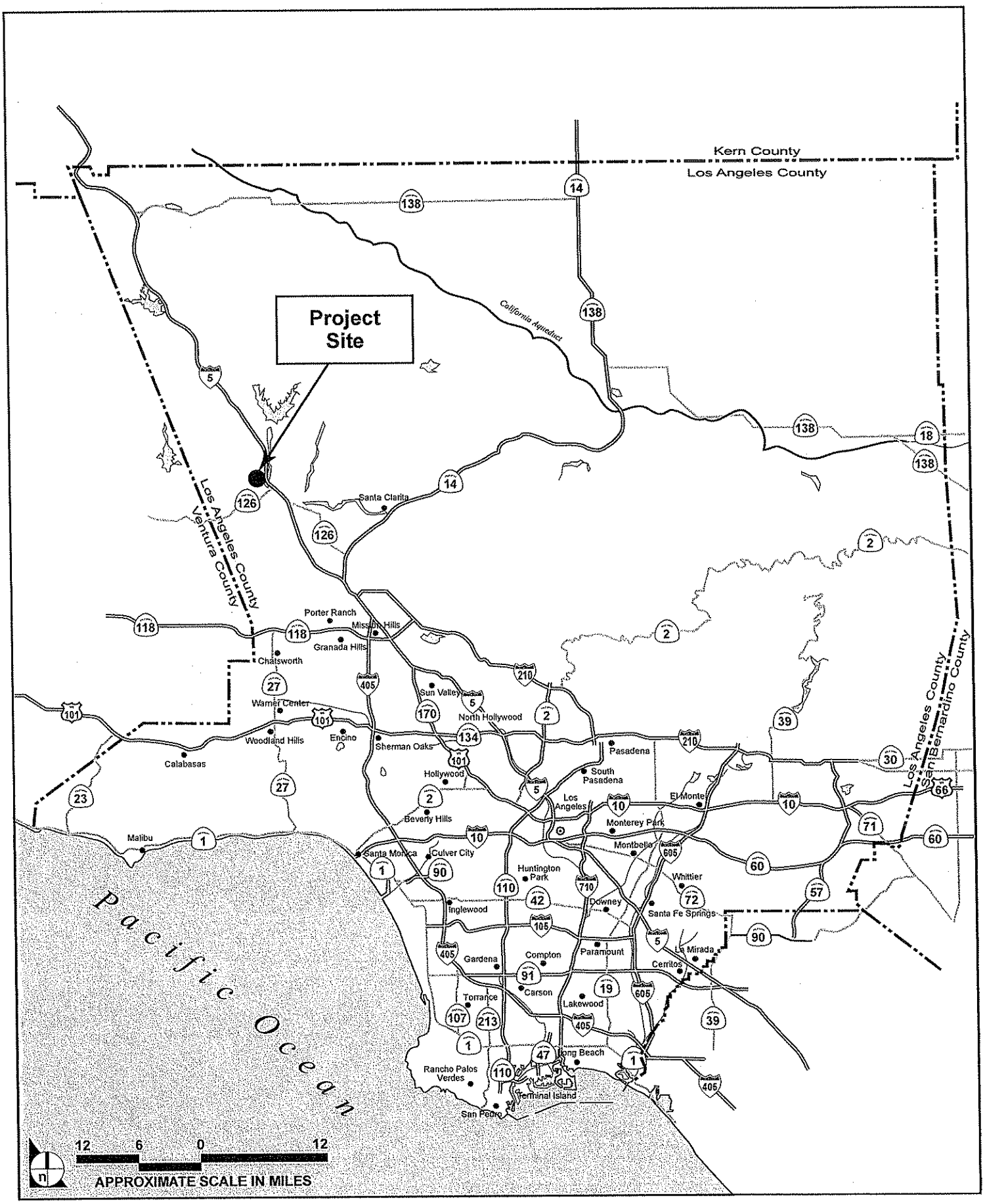
NOTICE OF PREPARATION REVIEW AND COMMENTS

The Los Angeles County Department of Regional Planning is soliciting input concerning the scope of the EIR for the proposed project. To facilitate your review, the following materials are attached:

- Los Angeles County Initial Study
- Regional and Project Location Map
- Site Plans
- 1,000' Radius Land Use Map

The review period for the Notice of Preparation will be from December 19, 2013-January 31, 2014 **(44 days)**. Due to the time limits mandated by State law, your response must be sent at the earliest possible date, but not later than **January 31, 2014**. In your written response, please include the name of a contact person in your agency, if applicable. Please direct all written comments to the following address:

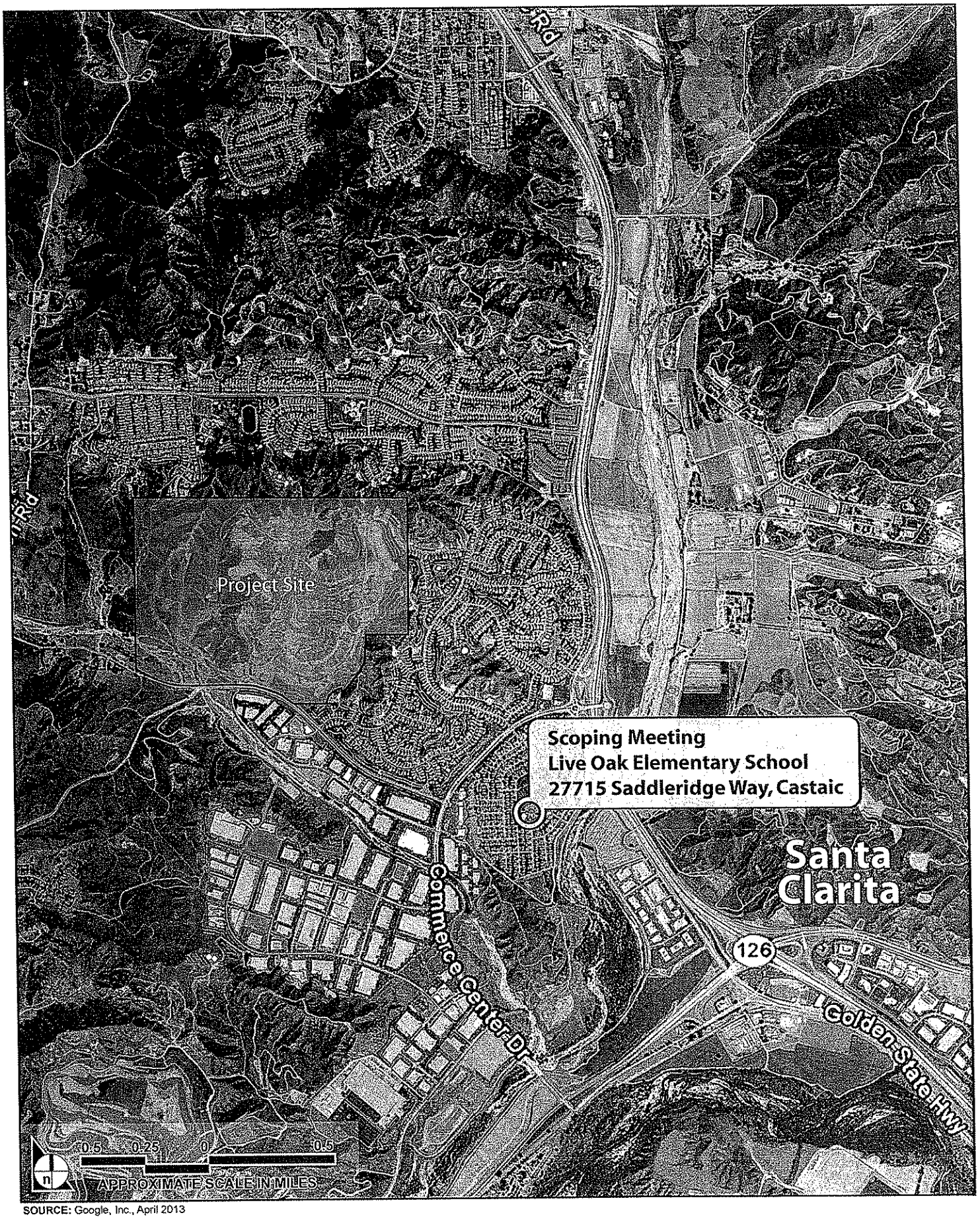
Jodie Sackett
County of Los Angeles
Department of Regional Planning
Land Divisions Section
320 West Temple Street, Room 1382
Los Angeles, CA 90012
Tel: 213-974-6433
Fax: (213) 626-0434
E-mail: jsackett@planning.lacounty.gov



SOURCE: Impact Sciences, Inc., April 2013

Regional Location

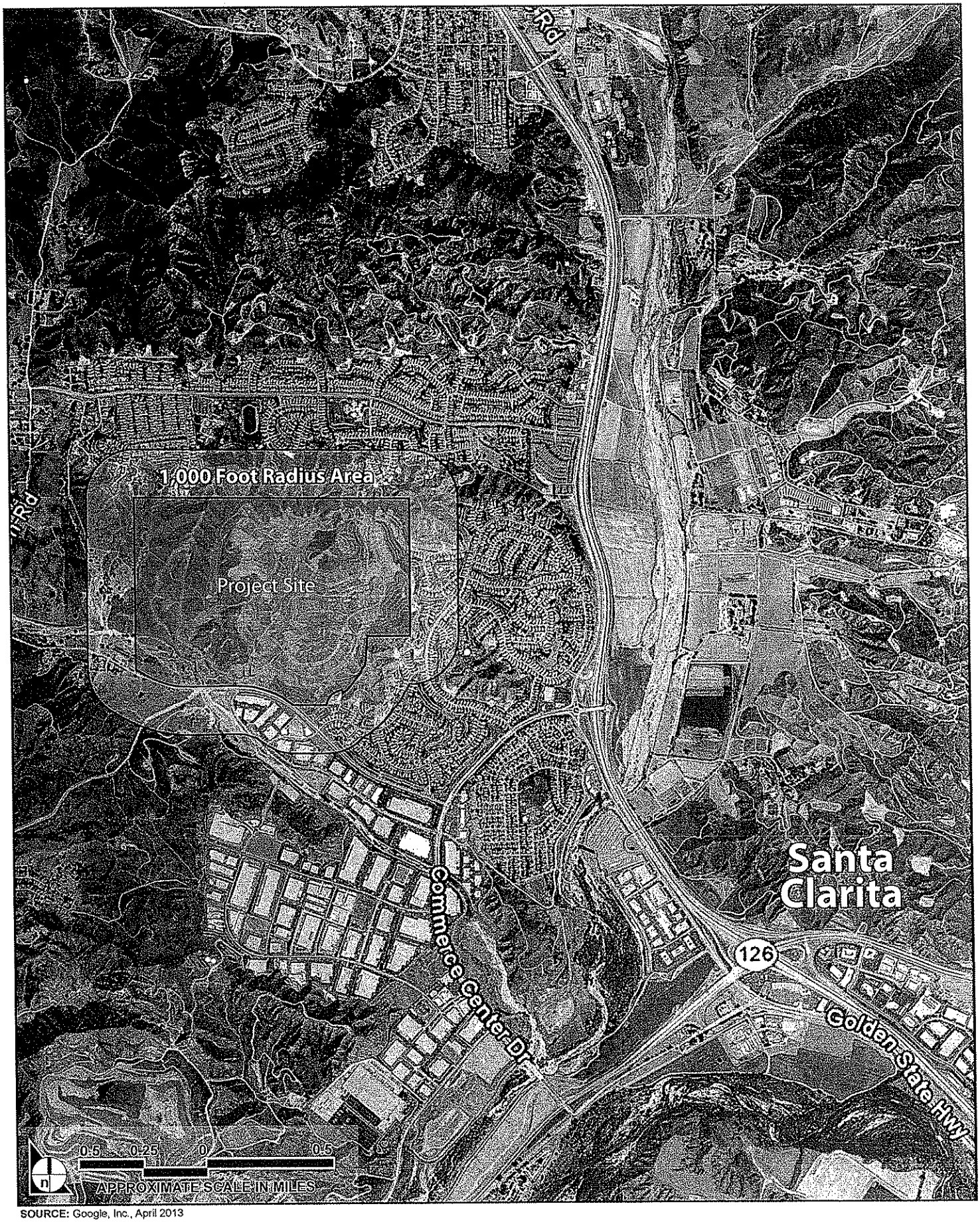
1154.001-04/13



SOURCE: Google, Inc., April 2013

Vicinity Map

1154.001-07/13



SOURCE: Google, Inc., April 2013

1,000 Foot Radius Map

1154.001-07/13

BARCELONA ROAD TO HILLCREST PARKWAY

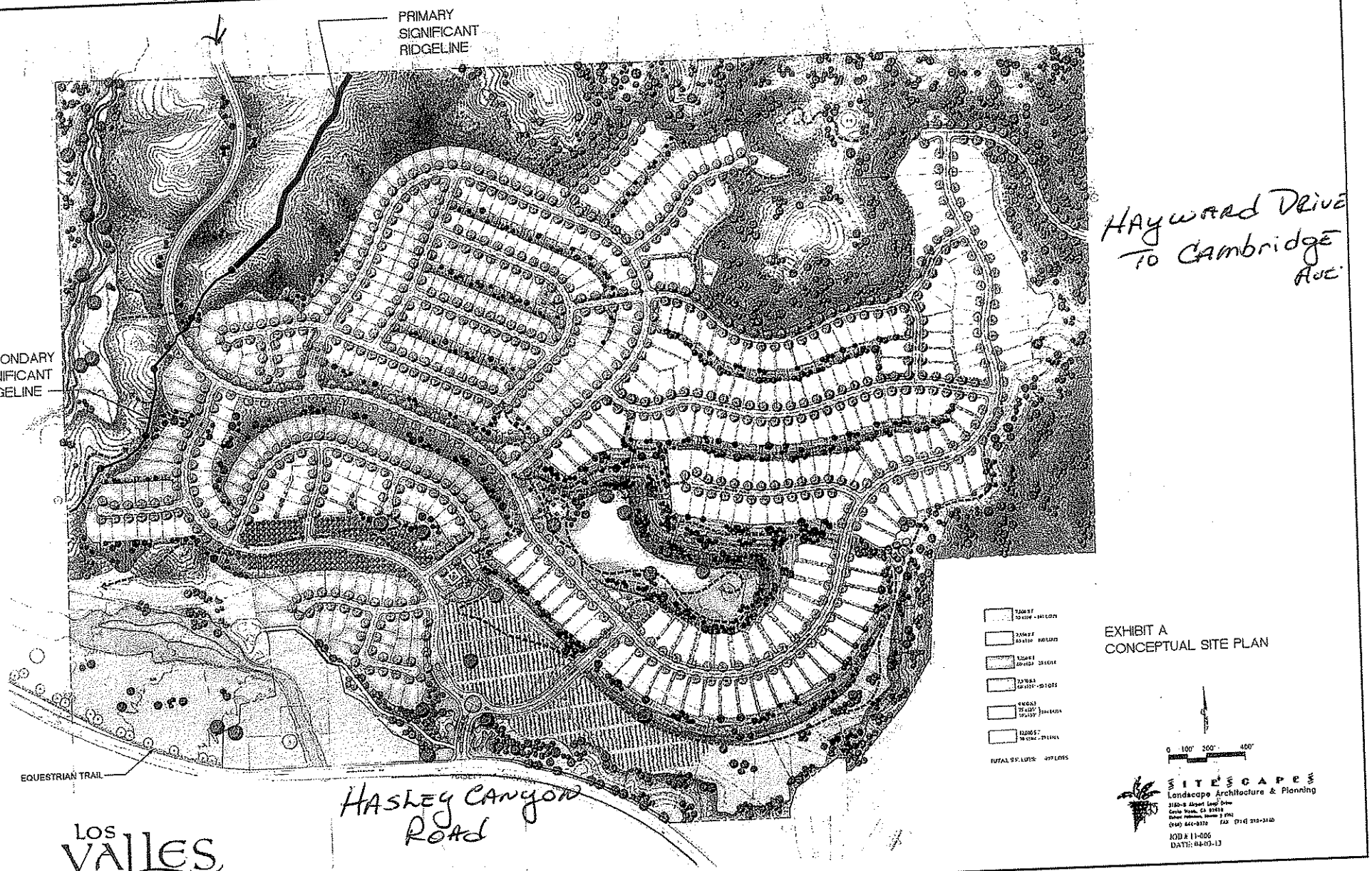


EXHIBIT A

SOURCE: Sitescapes, Landscape Architecture & Planning, April 2013

Conceptual Site Plan

1154.001•11/13

Environmental Checklist Form (Initial Study)
County of Los Angeles, Department of Regional Planning

Project title: *"Los Valles"* (if applicable) / Project No. 98-034 / Case No(s): ENV 201300138, Revised Tract 52584, VAR 201300003, CUP 201300081, OAK: 201300023.

Project location: 28801 Hasley Canyon Road

APN: 2866-062-032, 2866-062-033, 3247-032-052 *Thomas Guide*: _____ *USGS Quad*: *Val Verde*

Gross Acreage: 430.4

Description of project:

The project applicant, SFI Los Valles LLC (Applicant), is proposing a single-family residential development in the Castaic community of unincorporated Los Angeles County located north of Hasley Canyon Road near its intersection with Del Valle Road. The proposed Project will be developed on 430.4 acres of land owned by the Applicant, with primary access from Hasley Canyon Road (the Property). The Property is within the boundaries of the Castaic Area Community Standards District (CACSD) (Los Angeles County Code section [LACC] 22.44.137); but outside of the "Hasley Canyon Area" per the CACSD.

The Property's land use designation per the controlling One Valley, One Vision area plan (OVOV) is H2 - Residential 2, an urban land use designation providing for residential neighborhoods at densities that require urban services. The Property is zoned A-2-2 (Heavy Agriculture, 2-acre Minimum Lot Area), an agricultural zone permitting development of single-family residences in conformance with development standards established under the County's Single-Family Residence (R-1) zone.

The Applicant is proposing construction of a single-family residential development of 497 dwelling units on lot sizes ranging from approximately 7,000 – 12,000 square feet, together with community amenities for residents and the public including a community recreation center controlled by a homeowner's association, an approximately 19-acre community park, seven private recreational lots, and approximately 5 miles of pedestrian trails and accompanying infrastructure and public and private roadways (the Project). Vehicular access into portions of the residential community is proposed to be restricted via security gates, though unobstructed pedestrian access will be maintained at all gated entry points. Approximately 232 acres, comprising over 50 percent of the Property, will be utilized as recreational and open space. The Project utilizes the existing infrastructure and grading work of the prior approved project (described below) to the maximum extent feasible, while removing the golf course and providing additional dwelling units and a greater variety of common recreational spaces. The Project is designed at a low urban density of approximately 1.2 dwelling units per gross acre and with lot sizes comparable to the more urban, single-family homes to the east and north, while mostly preserving a ridgeline (to the west) and providing open space buffers against the more rural, non-urban land use designations located offsite to the west and the commerce center located offsite to its south. See **Exhibit A, Conceptual Project Site Plan.**

Based on land use approvals issued by the County in 2002—Vesting Tentative Tract Map (VTTM) No. 52584 and Conditional Use Permit (CUP)/Oak Tree Permit (OTP) Nos. 98-034-(5) (the Prior Entitlements), the prior owner of the Property commenced substantial grading of 209 single-family lots and a private golf course on the Property. In accordance with approvals granted in the Prior Entitlements, the Property owner undertook significant landform grading (in excess of 12 million combined cubic yards) and infrastructure installation—including installation of electrical, storm drains, sewers, graded roadways, golf course fairways, and home pads and a 750,000-gallon water tank. Prior to grading in accordance with these

authorized approvals, the Property included two ridgelines: an "easterly" ridgeline, located within the boundaries of VTTM No. 52584 Phase 1 (recorded) and Phase 2 (unrecorded) and the "westerly" ridgeline which traverses the Property from north to south and is located east of the connection with Barcelona Road on the north and east of Hasley Creek on the south. Although portions of these ridgelines were subsequently mapped by the County as significant primary and secondary ridgelines, as a result of grading authorized by the Prior Entitlements, areas of the "easterly" ridgeline designated by the County as primary significant ridgeline on the Property were almost entirely removed and areas designated as secondary ridgeline were removed or substantially degraded. The westerly ridgeline was also partially graded. The Property as a whole remains in this state, wherein about two-thirds of the site is substantially graded and the remaining portions less so graded or ungraded. See **Exhibit B, Existing Conditions Aerial Photograph of Project Site.** Subsequent to its approval of the Prior Entitlements, the County mapped two ridgelines on the Property as significant ridgelines.

Surface water features on the Property subject to the regulatory authority of the U.S. Army Corps of Engineers and California Department of Fish and Wildlife are comprised of an unnamed stream that exits the Property at the westerly property line and a portion of Hasley Canyon Creek flowing southeasterly through the southwesterly portion of the Property. In addition, the far westerly portion of the Property is affected by out-flow from a County storm drain located north of the Property. Development in these areas of the Property has the potential to impact sensitive habitat including mainland cherry forest and oak woodlands. Nonetheless, as the creek and outflow areas are not proposed to be developed as part of the Project, direct impacts to these habitat areas are not anticipated. The Project proposes to preserve these areas as open space, including any cherry forest or oak woodlands. It is therefore anticipated that US Army Corps of Engineers, California Department of Fish and Wildlife and US Fish and Wildlife permits will not be required in connection with the Project. In the event that modifications to these areas or any jurisdictional waters on the Property are proposed at a later date, the EIR will analyze the potential impacts to these areas if any dredge and/or fill operations were to take place within the jurisdictional waters boundaries. The Project also proposes to remove one non-heritage oak tree, subject to provisions of the Los Angeles County Oak Tree Ordinance. In addition, pursuant to agreements between the County, Los Angeles County Waterworks District No. 36 (the District) and the Applicant, the Applicant has constructed and dedicated a water well and water system improvements to the District, all of which have been accepted by the District and are operational.

The following discretionary land use approvals are requested by this application:

1. Revised Vesting Tentative Tract Map subdividing the Property into a total of 497 single-family lots, 13 open space lots, 7 recreation lots, one public park lot, one water tank lot, and seven debris basin lots, for a total of 526 lots. The proposed revised map would replace the existing VTTM 52584 and final tract map, which remain in effect.

2. Conditional Use Permits (CUP) authorizing (1) density-controlled development (LACC 22.24.150 & 22.56.205); (2) a CSD significant ridgeline exemption with respect to the westerly ridgeline for open space, construction of trails, landscape areas, stabilization of a pre-existing sand mining operation and access via extension of Barcelona Road and related infrastructure (LACC 22.44.137.D.6.d.i(B)); (3) development in accordance with the County's urban hillside management criteria (LACC 22.56.215); and (4) an on-site grading project involving more than 100,000 cubic yards of combined cut/fill (LACC 22.56.210). In addition, a CUP is requested for the installation of an additional 850,000 gallon water tank (LACC 22.24.150).

3. Oak Tree Permit for the removal of one or more protected oak trees on the Property.

4. Variance to authorize the non-exempted development of the easterly ridgeline, which is a mapped significant ridgeline located on the Property that has been substantially graded pursuant to the Prior Entitlements.

General plan designation: Urban (U)

Community/Area wide Plan designation: H-2-Residential 2

Zoning: A2-2 (Heavy Agriculture, 2-acre Minimum Lot Area)

Surrounding land uses and setting: The Property is encompassed by single-family residential development to the north and east, the Val Verde Community to the southwest, single-family to and equestrian uses to the west and manufacturing/industrial uses to the south.

Major projects in the area:

Project/Case No.	*Description and Status*

Reviewing Agencies:

Responsible Agencies

- ☐ None
- Regional Water Quality Control Board:
  - ☒ Los Angeles Region
  - ☐ Lahontan Region
- ☐ Coastal Commission
- ☒ Army Corps of Engineers

Special Reviewing Agencies

- ☐ None
- ☒ Santa Monica Mtns. Conservancy
- ☐ National Parks
- ☐ National Forest
- ☐ Edwards Air Force Base
- ☐ Resource Conservation District of Santa Monica Mtns. Area

Regional Significance

- ☐ None
- ☒ SCAG Criteria
- ☒ Air Quality
- ☐ Water Resources
- ☐ Santa Monica Mtns. Area

Trustee Agencies

- ☐ None
- ☒ State Fish and Wildlife
- ☐ State Parks

County Reviewing Agencies

- ☒ Subdivision Committee
- ☒ DPW:

Public agency approvals which may be required:

Public Agency	***Approval Required***
California Regional Water Quality Control Board	National Pollutant Discharge Elimination System Permit: and Section 401 permit under the federal Clean Water Act
California Department of Fish and Wildlife	A Streambed Alteration Agreement per Fish & Game Code Section 1602 would be required for modification of a blue line stream on the Property.
	Incidental Take Permits would be required to authorize impacts, if any, to listed species under Section 20981 of the Fish & Game Code.
US Fish and Wildlife Services	Federal permits would be required if habitat is to be disturbed for a federally listed species.
United States Department of the Army, Corps of Engineers	Section 404 Permit under the federal Clean Water Act
South Coast Air Quality Management District	Various permits for air emissions regulation found in the Air Quality Management Plan

Lead agency name and address:
County of Los Angeles
Department of Regional Planning
320 West Temple Street
Los Angeles, California 90012

Project sponsor's name and address:
SFI Los Valles, LLC
10960 Wilshire Blvd., 1260
Los Angeles, California 90024

Contact person and phone number: Jodie Sackett, (213) 974-6433

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

IMPACT ANALYSIS SUMMARY MATRIX		No Impact	Less than Significant Impact	Less than Significant Impact w/ Project Mitigation	Potentially Significant Impact	Potential Concern
Environmental Factor	Pg.					
1. Aesthetics		☐	☐	☐	☒	*Substantial landform alteration, ridgeline and viewshed impacts*
2. Agriculture/Forest		☒	☐	☐	☐	*There are no agricultural resources on the site*
3. Air Quality		☐	☐	☐	☒	*Construction and operational impacts (local and regional)*
4. Biological Resources		☐	☐	☐	☒	*Special status plants, oak trees*
5. Cultural Resources		☐	☐	☒	☐	*Potential cultural resource impacts*
6. Energy		☐	☐	☒	☐	*Project site is transitional, low-density with lack of planned bikeway connectivity*
7. Geology/Soils		☐	☐	☒	☐	*4.5million cu. yds. of soil to be balanced on-site*
8. Greenhouse Gas Emissions		☐	☐	☐	☒	*Potential greenhouse gas emissions (cumulative impact only)*
9. Hazards/Hazardous Materials		☐	☐	☒	☐	*Project is located in a High Fire Hazard Area; Petroleum storage and extraction use*
10. Hydrology/Water Quality		☐	☐	☒	☐	*A portion of the site has been graded and a portion undeveloped, NPDES, LID standards*
11. Land Use/Planning		☐	☐	☐	☒	*Conditional use permits, oak tree permit and a variance are required*
12. Mineral Resources		☒	☐	☐	☐	*There are no mineral resources on the project site.*
13. Noise		☐	☐	☐	☒	*Project will generate new noise impacts, project near existing residential and other sensitive uses*
14. Population/Housing		☐	☐	☒	☐	*A new planned community will induce some growth*
15. Public Services		☐	☐	☐	☒	*Fire and Sheriff service impacts*
16. Recreation		☐	☐	☒	☐	*Increased need for recreational services*
17. Transportation/Traffic		☐	☐	☒	☐	*New traffic trip will be generated by the project (construction and operational)*
18. Utilities/Services		☐	☐	☐	☒	*Water, solid waste services are required for the project*
19. Mandatory Findings of Significance		☐	☐	☐	☒	*Development of a mapped significant ridgeline, traffic, fire hazards*

DETERMINATION: (To be completed by the Lead Department.)
On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☒ **I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.**

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Julie Jackson — 11-6-13

Signature — Date

Signature — Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources the Lead Department cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3) Once the Lead Department has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level. (Mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced.)

5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA processes, an effect has been adequately analyzed in an earlier EIR or negative declaration. (*State CEQA Guidelines* § 15063(c)(3)(D).) In this case, a brief discussion should identify the following:

   a) Earlier Analysis Used. Identify and state where they are available for review.

   b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of, and adequately analyzed in, an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

   c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

7) The explanation of each issue should identify: the significance threshold, if any, used to evaluate each question, and; mitigation measures identified, if any, to reduce the impact to less than significance. Sources of thresholds include the County General Plan, other County planning documents, and County ordinances. Some thresholds are unique to geographical locations.

8) Climate Change Impacts: When determining whether a project's impacts are significant, the analysis should consider, when relevant, the effects of future climate change on : (1) worsening hazardous conditions that pose risks to the project's inhabitants and structures (e.g., floods and wildfires), and (2) worsening the project's impacts on the environment (e.g., impacts on special status species and public health).

1. AESTHETICS

Would the project:	*Potentially Significant Impact*	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Have a substantial adverse effect on a scenic vista, including County-designated scenic resources areas (scenic highways as shown on the Scenic Highway Element, scenic corridors, scenic hillsides, and scenic ridgelines)?	☒	☐	☐	☐

The CACSD calls for the protection of significant ridgelines, defined as primary and secondary, in the CACSD area. As noted above, a significant ridgeline (consisting of both a primary and secondary ridgeline) is located on the westerly portion of the Property. Pursuant to the Prior Entitlements, removal of both the easterly and westerly ridgelines on the Property was authorized and over 12 million cubic yards of combined cut and fill grading occurred on the Property, leaving the site in its current substantially disturbed state. Prior site work included minor grading and a sand mining operation on portions of the westerly ridgeline; however, this ridgeline remains substantially intact and is visible from the Property and areas to the west, including from Hasley Canyon Road. The Project and the Prior Entitlements both incorporate an extension of Barcelona Road to Hasley Canyon Road from its current terminus at the northern boundary of the Property. Some housing on the Project Site to be developed in currently undeveloped areas may be visible from I-5 and from hillsides to the south of the Project site. Hasley Canyon Road is not a Scenic Highway. Therefore, it is recommended that this topic be analyzed further in an EIR.

b) Be visible from or obstruct views from a regional riding or hiking trail?	☒	☐	☐	☐

The Project may be visible from the Regional Backbone Trail System. Therefore, it is recommended that this topic be analyzed further in an EIR.

c) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, historic buildings, or undeveloped or undisturbed areas?	☒	☐	☐	☐

Project implementation will substantially modify the visual perspective of the site. Pursuant to the Prior Entitlements, removal of both the easterly and westerly ridgelines on the Property was authorized and over 12 million cubic yards of combined cut and fill grading occurred on the Property, leaving the site in its current substantially disturbed state. Prior site work included minor grading and a sand mining operation on portions of the westerly ridgeline; however, this ridgeline remains substantially intact and is visible from the Property and areas to the west, including from Hasley Canyon Road. There are no significant rock outcroppings, or historic buildings located on the Project site. There are oak woodlands onsite. A portion of the site is undeveloped and will be disturbed as a result of Project implementation. Therefore, it is recommended that this topic be analyzed further in an EIR.

d) Substantially degrade the existing visual character or quality of the site and its surroundings because of height, bulk, pattern, scale, character, or other features?	☒	☐	☐	☐

The proposed uses are somewhat compatible with adjacent uses andthe character of the surrounding area. (LACC Section 22.44.137.D.6.d.ii(A)). The surrounding uses primarily consist of industrial-warehouse/office buildings, undeveloped land and single-family residences. Therefore, it is recommended that this topic be analyzed further in an EIR.

e) Create a new source of substantial shadows, light, or glare which would adversely affect day or nighttime views in the area?	☒	☐	☐	☐

Development of the site will bring new light sources to the area that are not currently present. The new light sources, while assumed and commonly associated with residential development may affect nighttime views. Therefore, it is recommended that this topic be analyzed further in an EIR. The residential units proposed would be no more than two stories in height and would therefore not create a new source for shadows. It is not expected that the Project will create substantial amounts of glare, which would affects daytime or nighttime views. No further analysis of shade, shadow or glare is necessary and no mitigation measures are required. .

2. AGRICULTURE / FOREST

Would the project:	*Potentially Significant Impact*	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒

The Project site is not mapped as a part of the Farmland Mapping and Monitoring Program of the California Resources Agency. The Project would not convert Prime, Unique, or Farmland of Statewide Importance as shown on the Farmland Mapping and Monitoring Program of the California Resources Agency to non-agricultural uses. No further analysis of this topic is necessary and no mitigation measures are required.

b) Conflict with existing zoning for agricultural use, with a designated Agricultural Opportunity Area, or with a Williamson Act contract?	☐	☐	☒	☐

The Project site is not a designated Agricultural Opportunity Area or a Williamson Act contract. The subject property is zoned A-2-2 (Heavy Agriculture, 2-acre Minimum Lot Area), an agricultural zone permitting development of single-family residences in conformance with development standards established under the County's Single-Family Residence (R-1) zone. No further analysis of this topic is necessary and no mitigation measures are required.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code § 12220 (g)) or timberland zoned Timberland Production (as defined in Public Resources Code § 4526)?	☐	☐	☐	☒

There are no forest lands or timberlands on the Project site. Consequently there is no conflict with rezoning of forest or timberlands. No further analysis of this topic is necessary and no mitigation measures are required.

d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒

There are no forest lands on the Project site. Consequently there is no conflict with rezoning of forest or timberlands. No further analysis of this topic is necessary and no mitigation measures are required.

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

There are no agricultural uses in close proximity to the Project site. Nearby uses include equestrian, rural residential and residential. In fact, the Project proposes an agricultural orchard use not presently found on the Project site. Therefore, development of the Project site would not result in the conversion to non-agricultural uses or conversion of forestland to non-forest uses. No further analysis of this topic is necessary and no mitigation measures are required.

3. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.

Would the project:	*Potentially Significant Impact*	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Conflict with or obstruct implementation of applicable air quality plans of the South Coast AQMD (SCAQMD) or the Antelope Valley AQMD?	☒	☐	☐	☐

Because there is the potential for air quality impacts, further analysis is required to determine if development of the proposed Project would conflict with or obstruct implementation of applicable air quality plans of the South Coast Air Quality Management District (SCAQMD). At this time, no air quality modeling has been conducted. As such, it is recommended that this topic be analyzed further in an EIR.

b) Violate any applicable federal or state air quality standard or contribute substantially to an existing or projected air quality violation (i.e. exceed the state's criteria for regional significance which is generally (a) 500 dwelling units for residential uses or (b) 40 gross acres, 650,000 square feet of floor area or 1,000 employees for nonresidential uses)?	☒	☐	☐	☐

While the Project would develop 497 dwelling units for residential uses, there is nonetheless the potential for violation of federal and/or state air quality standards regarding construction and operational impacts. As such, it is recommended that this topic be analyzed further in an EIR.

c) Exceed a South Coast AQMD or Antelope Valley AQMD CEQA significance threshold?	☒	☐	☐	☐

Development of the Project site (construction and operation) may exceed a SCAQMD significance threshold. As such, it is recommended that this topic be analyzed further in an EIR.

d) Otherwise result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☒	☐	☐	☐

Development of the Project site (related to grading and operational trips) may result in a cumulatively considerable net increase of a criteria pollutant for which the Project site is in nonattainment. Therefore, it is recommended that this topic be analyzed further in an EIR.

e) Expose sensitive receptors (e.g., schools, hospitals, parks) to substantial pollutant concentrations due to location near a freeway or heavy industrial use? ☒ ☐ ☐ ☐

The Project is not located near a freeway (the I-5 freeway is over 0.5 mile east of the Project site) or heavy industrial uses. South of the Project site is the Commerce Center Industrial Park which only allows light industrial uses. Some "waste" uses have been identified south of the site. Further analysis of this topic may be necessary and therefore, it is recommended that this topic be analyzed further in an EIR.

f) Create objectionable odors affecting a substantial number of people? ☒ ☐ ☐ ☐

The 497 residential units proposed on the Project site would not create objectionable odors that would affect a substantial number of people. However the proposed orchard may produce some odors associated with operations, but these are anticipated to be less than significant. Off-site uses, including waste, oil wells and associated chemicals and manure from nearby rural properties may also create some odors from time and therefore, it is recommended that this topic be analyzed further in an EIR.

4. BIOLOGICAL RESOURCES

Would the project:	*Potentially Significant Impact*	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game (DFG) or U.S. Fish and Wildlife Service (USFWS)?	☒	☐	☐	☐

Habitat on-site provides conditions potentially suitable to support western spadefoot toad, California gnatcatcher, San Fernando Valley Spineflower, and slender mariposa lily. Direct impacts to any of these species would be considered a potentially significant impact. Therefore, it is recommended that this topic be analyzed further in an EIR.

b) Have a substantial adverse effect on sensitive natural communities (e.g., riparian habitat, coastal sage scrub, oak woodlands, non-jurisdictional wetlands) identified in local or regional plans, policies, and regulations DFG or USFWS? These communities include Significant Ecological Areas (SEAs) identified in the General Plan, SEA Buffer Areas, and Sensitive Environmental Resource Areas (SERAs) identified in the Coastal Zone Plan.	☒	☐	☐	☐

The Project may impact sensitive habitat including Mainland Cherry Forest and Oak Woodlands. Surveys will be conducted to determine the presence of species. It should be noted that if any of the species are located in Hasley Creek they would not be impacted as the creek will not be impacted by development activities. The creek area may be used to provide mitigation. The Project site is not located in an SEA, SEA Buffer Area, or Sensitive Environmental Resource Area (SERA). It is recommended that this topic be analyzed further in an EIR.

c) Have a substantial adverse effect on federally protected wetlands (including marshes, vernal pools, and coastal wetlands) or waters of the United States, as defined by § 404 of the Clean Water Act through direct removal, filling, hydrological interruption, or other means? ☒ ☐ ☐ ☐

Development of the Project site may impact jurisdictional resources including waters of the US, and federal wetlands. Development plans illustrate that Hasley Creek, a blue line stream, will not be impacted by development. Nonetheless, impacts to biological resources will be discussed in depth in the environmental document.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? ☐ ☒ ☐ ☐

Existing impediments to movement of wildlife occur to the west of the Project Site, by Chiquito Canyon Road, by existing Commerce Center and the I-5 to the north and east, and by SR 126 to the south. As extensive development to the north, east and south, and additional development to the west of the Project Site already substantially constrain wildlife movement in the area, the Project has the potential to further restrict impacts to wildlife movement in the area. Therefore, it is recommended that this topic be analyzed further in an EIR.

e) Convert oak woodlands (as defined by the state, oak woodlands are oak stands with greater than 10% canopy cover with oaks at least 5 inches in diameter measured at 4.5 feet above mean natural grade) or otherwise contain oak or other unique native trees (junipers, Joshuas, etc.)? ☒ ☐ ☐ ☐

Oak woodlands, as defined by the state occur on-site and could potentially be substantially impacted. Any stands of oak woodlands located adjacent to Hasley Canyon Creek/Canyon are located in an area to be preserved as open space and not expected to be impacted by development activities. Nonetheless, impacts to oak woodlands and native trees will be analyzed further in an EIR.

f) Conflict with any local policies or ordinances protecting biological resources, including Wildflower Reserve Areas (L.A. County Code, Title 12, Ch. 12.36) and the Los Angeles County Oak Tree Ordinance (L.A. County Code, Title 22, Ch. 22.56, Part 16)? ☒ ☐ ☐ ☐

Individual oak trees occur on-site and could potentially be significantly impacted by Project implementation. Therefore, it is recommended that this topic be analyzed further in an EIR.

g) Conflict with the provisions of an adopted state, regional, or local habitat conservation plan?	☐	☐	☐	☒

There are no adopted state, regional, or local habitat conservation plans applicable to the Project site. No further analysis of this topic is necessary and no mitigation measures are required.

5. CULTURAL RESOURCES

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines § 15064.5?	☐	☐	☒	☐

There are no known historical resources located on the Project site. The Project site was used previously as a golf course. There is no other known use of the property. As such, no further analysis of this topic is necessary and no mitigation measures are required.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines § 15064.5?	☐	☒	☐	☐

In 2002, pursuant to the Prior Entitlements, the Property was entitled for 209 single-family residential units, a golf course, and ancillary facilities. The first phase of the associated VTTM has been recorded. Pursuant to the Prior Entitlements, over 12 million cubic yards of combined cut and fill grading occurred on the subject property between 2006 and 2008, leaving the property in its current substantially disturbed state. There were no known archaeological resources located on the Project site during previous grading activities and none are anticipated. However, it has been over 10 years since the previous cultural resources study was prepared. It is appropriate to prepare a new Phase I archaeological resources report to determine if any resources have been located in the Project area. Thus, further evaluation is needed to determine the potential for, and significance of, any impacts from the Project on archeological resources.

c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature, or contain rock formations indicating potential paleontological resources?	☐	☒	☐	☐

In 2002, pursuant to the Prior Entitlements, the Property was entitled for 209 single-family residential units, a golf course, and ancillary facilities. The first phase of the associated VTTM has been recorded. Pursuant to the Prior Entitlements, over 12 million cubic yards of combined cut and fill grading occurred on the subject property between 2006 and 2008, leaving the property in its current substantially disturbed state. No paleontological or unique geological resources were found when grading was previously conducted on a portion of the Project site, and none are expected to be found with proposed development activities. Nonetheless there is a potential for paleontological resources to be found on that portion of the site that has not been graded. Further evaluation is needed to determine the potential for, and significance of, any impacts from the Project on paleontological resources.

d) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☒	☐	☐

In 2002, pursuant to the Prior Entitlements, the Property was entitled for 209 single-family residential units, a golf course, and ancillary facilities. The first phase of the associated VTTM has been recorded. Pursuant to the Prior Entitlements, over 12 million cubic yards of combined cut and fill grading occurred on the subject property between 2006 and 2008, leaving the property in its current substantially disturbed state. No human remains were found when grading was previously conducted on a portion of the Project site and none are expected to be found with proposed development activities. Nonetheless there is a potential for human remains to be found on that portion of the site that has not been graded. Further evaluation is needed to determine the potential for, and significance of, any impacts from the Project to human remains.

6. ENERGY

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
Would the project:				
a) Comply with Los Angeles County Green Building Standards?(L.A. County Code Title 22, Ch. 22.52, Part 20 and Title 21, § 21.24.440.)	☐	☐	☒	☐

Development of the Project will comply with with the Los Angeles County Green Building Standards as well as State green building standards. No further analysis of this topic is necessary and no mitigation measures are required.

b) Involve the inefficient use of energy resources (see Appendix F of the CEQA Guidelines)?	☐	☒	☐	☐

Development and construction of the Project will not involve the inefficient use of energy resources. Regarding the overall design of the project and long-term operational impacts, the project is a low-density urban residential development dispersed over 430 acres. Several recreational amenities are provided onsite and located within reasonable walking distance of residences. Due to the sloping terrain and use of existing grading designs planned for the previously-approved lower-density development, internal street connectivity is low, which tends to discourage pedestrian travel through the development; however, pedestrian connections have been installed for most of the street cul-de-sacs to allow through-access. The proposed northwesterly road access to the adjacent community in the north will provide access to existing schools through the project site, shortening trips that would otherwise be necessary to travel around the site in order to get to the schools. All this will help to reduce some automobile trips and/or decrease use of fossil fuel energy resources for automobile travel. However, the approximately 1,500 new residents expected to eventually live in the development will still need to travel by car to destinations that provide common needs (such as grocery, banking, pharmacy, dining, doctor/dentist, entertainment, etc.) as these are located beyond convenient walking distance near the I-5 freeway, with most being further away. Travel to reach these destinations is along Hasley Canyon Road, which is designed for high vehicle speeds and is not pedestrian-friendly. Furthermore, related to alternative transportation and energy conservation, no bikeway facilities are proposed within the project, and no bikeway connectivity is planned for proposed offsite public bikeways to the north and south of the site. Further analysis may be required in an EIR to consider how long-term operational energy uses (via private automobile) can be reduced via appropriate mitigation measures.

7. GEOLOGY AND SOILS

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the loss, or death injury:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zone Map issued by the State Geologist for the area or based on substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☒	☐	☐

The Project site is not located on a known earthquake fault as per the Val Verde Quadrant Map, State of California Department of Conservation. However, all development in Southern California is located in relatively close proximity to earthquake faults. Mitigation measures are required to minimize impacts to development. In addition, the proposed Project will be required to comply with recommended mitigation and stabilization measures set forth in the soils report provided by a licensed geologist and geotechnical engineer. Therefore, it is recommended that this topic be analyzed further in an EIR.

ii) Strong seismic ground shaking.	☐	☐	☒	☐

The proposed Project will be required to comply with recommended mitigation and stabilization measures set forth in the soils report provided by a licensed geologist and geotechnical engineer.

iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐

Based upon geotechnical reports prepared for the Project site, liquefaction or subsidence is not expected to occur on the Project site.[1] Thus, no further analysis of this topic is necessary and no mitigation measures are required.

[1] Geologic and Geotechnical Report, Vesting Tentative Tract 52584, Castaic, California, Allan E. Seward, Engineering Geology, Inc., January 15, 1999

iv) Landslides? ☐ ☒ ☐ ☐

The Project site contains slopes that are subject to landslides. In 2002, pursuant to the Prior Entitlements, the Property was entitled for 209 single-family residential units, a golf course, and ancillary facilities. The first phase of the associated VTTM has been recorded. Pursuant to the Prior Entitlements, over 12 million cubic yards of combined cut and fill grading occurred on the subject property between 2006 and 2008, leaving the property in its current disturbed state. Project-related grading would require the additional movement of approximately 9 million cubic yards of combined cut and fill, which will be balanced on-site. The maximum graded slope on any portion of the Property will be at a 2:1 slope and these areas account for only a small portion of overall Project-related grading. A series of benches, swales and debris basins would also be constructed to collect, convey and release runoff in a controlled manner. Upon completion of the grading operations, additional work would be needed for fine grading for development pads. Mass grading would consist of rough grading operations for major roads and infrastructure, drainage patterns and building pads for the various land uses within the tract map site. Additional fine and custom grading may be necessary when residences are built depending upon future site-specific soils and geological investigations. Graded slopes would be landscaped and irrigated pursuant to County grading and regional erosion control requirements. The proposed Project will be required to comply with recommended mitigation and stabilization measures set forth in the soils report provided by a licensed geologist and geotechnical engineer. Therefore, it is recommended that this topic be analyzed further in an EIR.

b) Result in substantial soil erosion or the loss of topsoil? ☐ ☒ ☐ ☐

Without remedial measures, earth movement activities could result in substantial soil erosion or the loss of topsoil. See **a.iv.**, above. The proposed Project will be required to comply with recommended mitigation and stabilization measures set forth in the soils report provided by a licensed geologist and geotechnical engineer. Therefore, it is recommended that this topic be analyzed further in an EIR.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? ☐ ☒ ☐ ☐

Without soil remediation and mitigation, soils on the Project site could result in off-site landslides, lateral spreading, or collapse. See **a.iv.**, above. A project soils report has been prepared for the Project by a licensed geologist and geotechnical engineer. The proposed Project will be required to comply with recommended mitigation and stabilization measures set forth in that soils report, and additional mitigation measures may be required based upon the findings in that report. Therefore, it is recommended that this topic be analyzed further in an EIR.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? ☐ ☐ ☒ ☐

Based upon geotechnical reports prepared for the Project site, liquefaction or subsidence is not expected to occur on the Project site.[2] Thus, no further analysis of this topic is necessary and no mitigation measures are required.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒

The proposed Project will not use septic tanks or alternative wastewater disposal. Thus, no further analysis of this topic is necessary and no mitigation measures are required.

f) Conflict with the Hillside Management Area Ordinance (L.A. County Code, Title 22, § 22.56.215) or hillside design standards in the County General Plan Conservation and Open Space Element?	☐	☒	☐	☐

The Property is depicted in the Hillside Management land use category of the Santa Clarita Valley Area Plan, a component of the Los Angeles Countywide General Plan. As noted, the Property carries an "urban" H2-Residential 2 land use designation under OVOV. As such, the Property is subject to the County's hillside management criteria for urban hillside management areas.

The proposed residential development at the location proposed will not adversely affect the health, peace, comfort, safety or welfare of persons residing or working in the surrounding area because the Project has been designed to fully conform to all applicable regulations and requirements of the County's Planning and Public Works ordinances and codes. The proposed Project will be required to comply with recommended mitigation and stabilization measures set forth in the soils report provided by a licensed geologist and geotechnical engineer. All grading operations will be conducted in strict conformance with the Los Angeles County Grading Ordinance and with all storm water prevention and protection requirements. The design of the residential development and the types of improvements proposed will not cause public health problems, since storm drainage, fire protection, flood control and geological and soils factors will be addressed, as appropriate, in the conditions of approval for the Project. Furthermore, the Property is surrounded by single-family residential development to the north and east, the Val Verde Community to the southwest, single-family and equestrian uses to the west and manufacturing/industrial uses to the south, so the residential Project will be compatible and "in character" with surrounding and adjacent land uses.

The project will be continuing a pattern of large-scale landform alteration in order to complete the development, which amounts to a total of approximately 21 million cubic yards of combined cut and fill grading (12 million previously authorized and completed; 9 million presently proposed). Such volume of earthwork can only be balanced by a project design that adheres to the natural topography, reserves open space and habitat, and avoids aesthetic impacts, each to the best extent feasible, given the reliance on grading and infrastructure work previously completed under the old project. As such, it is recommended that this topic be analyzed further in an EIR.

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2 Geologic and Geotechnical Report, VTT 52584, Allan E. Seward, Engineering Geology, Inc., January 15, 1999

8. GREENHOUSE GAS EMISSIONS

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
Would the project:				
a) Generate greenhouse gas (GhGs) emissions, either directly or indirectly, that may have a significant impact on the environment (i.e., on global climate change)? Normally, the significance of the impacts of a project's GhG emissions should be evaluated as a cumulative impact rather than a project-specific impact.	☒	☐	☐	☐

Greenhouse gases generated by development of the proposed Project may cumulatively contribute to the release of greenhouse gas emissions to the environment resulting in global climate change. The amount of GhG emissions associated with the proposed Project has not been estimated at this time. Therefore, it is recommended that this issue be further evaluated in an EIR.

b) Conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases including regulations implementing AB 32 of 2006, General Plan policies and implementing actions for GhG emission reduction, and the Los Angeles Regional Climate Action Plan?	☒	☐	☐	☐

The amount of GhG emissions associated with the proposed Project has not been estimated at this time. Further evaluation is required to determine if the Project would achieve consistency with applicable plans, policies, or regulations adopted for the purpose of reducing GhG emissions.

9. HAZARDS AND HAZARDOUS MATERIALS

Would the project:	*Potentially Significant Impact*	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Create a significant hazard to the public or the environment through the routine transport, storage, production, use, or disposal of hazardous materials or use of pressurized tanks on-site?	☐	☐	☐	☒

The proposed Project includes single-family residential units, an orchard, recreational uses, and open space. Single-family residential units do not involve the routine transport, storage, production, use, or disposal of hazardous materials or use of pressurized tanks on-site. Small amounts of pesticides may be stored for the maintenance of open space areas and orchard use. However storage of the pesticides are in small amounts and would not constitute a hazard to the public or the environment. At this time, there is no proposal or need for pressurized tanks to be located on-site. Consequently there are no impacts. Thus, no further analysis of this topic is necessary and no mitigation measures are required.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials or waste into the environment?	☐	☒	☐	☐

Accidental release of hazardous materials such as that associated with former oil drilling could occur with mechanical and grading equipment used during construction activities. Further, pesticides used in the maintenance of open space, lawn areas, gardens etc., have the potential to be released in an accidental manner. Therefore, it is recommended that this topic be analyzed further in an EIR.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 500 feet of sensitive land uses (e.g., homes, schools, hospitals)?	☐	☐	☐	☒

Residential, open space and recreational uses would not emit hazardous emissions or require the handling of hazardous or acutely hazardous materials. Thus, no further analysis of this topic is necessary and no mitigation measures are required.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☒	☐	☐

A portion of the western property is located adjacent to active oil drilling. A search of hazardous material listings, pursuant to Government Code Section 65962.5, is appropriate to ensure that no releases have occurred.

e) For a project located within an airport land use plan, or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒

The Project is not located within 2 miles of a public airport or located within an airport land use plan. The nearest airport is Whiteman Airport located 22 miles to the southeast of the Project site. This airport is for private plan use only. Thus, no further analysis of this topic is necessary and no mitigation measures are required.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	☐	☐	☐	☒

The Project site is not located within the vicinity of a private airstrip. The nearest airport is Whiteman Airport located 22 miles to the southeast of the Project site. This airport is for private plan use only. Thus, no further analysis of this topic is necessary and no mitigation measures are required.

g) Impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒

The proposed Project would not interfere with or physically impair an adopted emergency response plan or emergency evacuation plan. By providing roadway linkages to development in the north and east of the Property via Barcelona Road and Hayward Drive, respectively, the Project will provide access for residents in those communities and in the Project to local schools, shopping and jobs, as well as improving access for public services, including police and fire personnel. Thus, no further analysis of this topic is necessary and no mitigation measures are required.

h) Expose people or structures to a significant risk of loss, injury or death involving fires, because the project is located:	☐	☒	☐	☐

See below.

i) in a Very High Fire Hazard Severity Zones (Zone 4)? ☐ ☒ ☐ ☐

The Project site is located in Very High Fire Hazard Severity Zone 4. By providing roadway linkages to development in the north and east of the Property via Barcelona Road and Hayward Drive, respectively, the Project will provide access for residents in those communities and in the Project to improving access for public services, including police and fire personnel. It is recommended that this topic be analyzed further in an EIR.

ii) in a high fire hazard area with inadequate access? ☐ ☐ ☒ ☐

While the Project site is located in Very High Fire Hazard Severity Zone 4, it has access to Hasley Canyon Road. By providing roadway linkages to development in the north and east of the Property via Barcelona Road and Hayward Drive, respectively, the Project will provide access for residents in those communities and in the Project to improving access for public services, including police and fire personnel. No further analysis of this topic is necessary and no mitigation measures are required.

iii) in an area with inadequate water and pressure to meet fire flow hazards? ☐ ☐ ☒ ☐

The Property contains an existing 750,000-gallon water tank on the Property, constructed to serve the development under the Prior Entitlements. As per LACC Section 22.24.150, water tanks are permitted in Zone A-2, the Property designation, as a conditional use. Due to an increase in fire flow requirements associated with the Project, an additional 850,000-gallon water tank is requested to meet these requirements. The water tank is proposed to be located in proximity to the existing water tank, on the same lot, and to share common access and a common water main line. No further analysis of this topic is necessary and no mitigation measures are required.

iv) in proximity to land uses that have the potential for dangerous fire hazard (such as refineries, flammables, and explosives manufacturing)? ☐ ☐ ☒ ☐

Off-site uses (such as oil wells, industrial uses) must meet all safety standards applicable to applicable usage and activities. Hazardous uses are regulated and permitted by the Los Angeles County Fire Department and all uses must abide by all permit restrictions and applicable measures. No further analysis of this topic is necessary and no mitigation measures are required.

10. HYDROLOGY AND WATER QUALITY

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
Would the project:				
a) Violate any water quality standards or waste discharge requirements?	☐	☒	☐	☐

The previously approved project received approval to be regulated under Order No. R4-2003-0108, *General National Pollutant Discharge Elimination System (NPDES) and Waste Discharge Requirements for Discharges of Groundwater from Potable Water Supply Wells to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by the Los Angeles County Regional Water Quality Control Board on August 7, 2003. Because the proposed Project is substantially changed from the previously approved project a new NPDES permit would be required. Further evaluation is needed to determine the potential for, and significance of, Project impacts on water quality.

b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	☐	☒	☐	☐

In 2011, District No. 36 began operating a groundwater extraction well on the Project Site pumping approximately 2,800 gallons per minute (gpm). This additional source of supply has increased the reliability of District No. 36's water supply. The 2010 Castaic Lake Water Agency (CLWA) Urban Water Management Plan (UWMP) includes a groundwater operating plan for the Eastern Basin. The groundwater operating plan calls for pumping from the Saugus formation in the range of 7,500 to 15,000 acre-feet per year (ac-ft/yr) in average/normal years and includes planned dry-year pumping from the Saugus formation of 21,000 to 35,000 ac-ft/yr for one to three consecutive dry years. The pumping ranges in the groundwater operation plan are based on an evaluation of groundwater basin yield conducted in 2009, which found the pumping ranges to be sustainable on a long-term basis.

Due to an increase in fire flow requirements associated with the Project, an additional 850,000-gallon water tank is requested to meet these requirements. The water tank is proposed to be located in proximity to the existing water tank, on the same lot, and to share common access and a common water main line. Further evaluation is needed to determine the potential for, and significance of, Project impacts on ground water supplies.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	☐	☒	☐	☐

The grading proposed for the site will substantially alter the existing drainage pattern of the Project area. If not mitigated, impacts could result from substantial erosion on- or off-site. Therefore, it is recommended that this topic be analyzed further in an EIR.

d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	☐	☒	☐	☐

Project development through the earth movement of 4.4 million cubic yards of soil would substantially alter the existing drainage pattern of the site. The Project will be required to comply with local and regional requirements related to stormwater runoff and is therefore anticipated that all impacts will be mitigated. However, the projected rate and amount of stormwater runoff and the proposed drainage should be further analyzed. Therefore, it is recommended that this topic be analyzed further in an EIR.

e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems?	☒	☐	☐	☐

It is not known if the stormwater system that will be able to accommodate existing and planned stormwater runoff. Therefore, it is recommended that this topic be analyzed further in an EIR.

f) Generate construction or post-construction runoff that would violate applicable stormwater NPDES permits or otherwise significantly affect surface water or groundwater quality?	☒	☐	☐	☐

The previously approved project received approval to be regulated under Order No. R4-2003-0108, *General National Pollutant Discharge Elimination System (NPDES) and Waste Discharge Requirements for Discharges of Groundwater from Potable Water Supply Wells to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by the Los Angeles County Regional Water Quality Control Board on August 7, 2003. Because the proposed Project is substantially changed from the previously approved project a new NPDES permit will be required as new water quality standards are applicable to the Project site. Further evaluation is needed to determine the potential for, and significance of, Project impacts on surface water and groundwater quality.

g) Conflict with the Los Angeles County Low Impact Development Ordinance (L.A. County Code, Title 12, Ch. 12.84 and Title 22, Ch. 22.52)?	☐	☒	☐	☐

Although the Project will be required to comply with the Los Angeles County Low Impact Development Ordinance, the best management practices have yet to be determined for the Project site. Therefore, it is recommended that this topic be analyzed further in an EIR.

h) Generate construction or post-construction runoff that would violate applicable stormwater NPDES permits or otherwise significantly affect surface water or groundwater quality? ☐ ☒ ☐ ☐

As discussed above, the previously approved project received approval to be regulated under Order No. R4-2003-0108, *General National Pollutant Discharge Elimination System (NPDES) and Waste Discharge Requirements for Discharges of Groundwater from Potable Water Supply Wells to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by the Los Angeles County Regional Water Quality Control Board on August 7, 2003. Because the proposed Project is substantially changed from the previously approved project a new NPDES permit will be required. Further evaluation is needed to determine the potential for, and significance of, Project impacts on surface water and groundwater quality.

i) Result in point or nonpoint source pollutant discharges into State Water Resources Control Board-designated Areas of Special Biological Significance? ☐ ☐ ☐ ☒

There are no Areas of Special Biological Significance near or on the Project site. No further analysis of this topic is necessary and no mitigation measures are required.

j) Use septic tanks or other private sewage disposal system in areas with known septic tank limitations or in close proximity to a drainage course? ☐ ☐ ☐ ☒

The proposed Project would not use septic tanks. The proposed Project will connect to the areawide wastewater system. No further analysis of this topic is necessary and no mitigation measures are required.

k) Otherwise substantially degrade water quality? ☐ ☒ ☐ ☐

As discussed above, the previously approved project received approval to be regulated under Order No. R4-2003-0108, *General National Pollutant Discharge Elimination System (NPDES) and Waste Discharge Requirements for Discharges of Groundwater from Potable Water Supply Wells to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by the Los Angeles County Regional Water Quality Control Board on August 7, 2003. Because the proposed Project is substantially changed from the previously approved project a new NPDES permit will be required. Further evaluation is needed to determine the potential for, and significance of, Project impacts on water quality.

l) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map, or within a floodway or floodplain? ☐ ☐ ☐ ☒

Hasley Canyon Creek, located at the western area of the property is designated as a FEMA floodway. No housing is proposed to be located near the floodway. No further analysis of this topic is necessary and no mitigation measures are required.

m) Place structures, which would impede or redirect flood flows, within a 100-year flood hazard area, floodway, or floodplain?	☐	☐	☐	☒

The proposed Project would not place any structures within the Hasley Canyon Creek floodway. No further analysis of this topic is necessary and no mitigation measures are required.

n) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	☐	☐	☐	☒

The Project site would not expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding resulting as a result of the failure of a levee or dam. No further analysis of this topic is necessary and no mitigation measures are required.

o) Place structures in areas subject to inundation by seiche, tsunami, or mudflow?	☐	☐	☒	☐

The Project site is not located in an area that would be inundated by seiche or tsunami. Mudflows would be highly unlikely to inundate the Project site, which would be as a result of off-site residential developments. No further analysis of this topic is necessary and no mitigation measures are required.

11. LAND USE AND PLANNING

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒

The 430-acre site itself, currently partially graded but undeveloped, is located between two existing residential communities, one to the north and the other to the east. However, once constructed, the project will connect the two disparate communities with a public roadway (via Barcelona Dr. and Hayward Dr.). Thus, the project will not physically divide an established community (or communities) but actually help to connect them. Industrial development and scattered developed and undeveloped residential and agricultural parcels exist to the south and west, are accessible via Hasley Canyon Rd., and thus do not present any challenge or opportunity for connection by or through the proposed development. No further analysis of this topic is necessary and no mitigation measures are required.

b) Be inconsistent with the plan designations of the subject property? Applicable plans include: the County General Plan, County specific plans, County local coastal plans, County area plans, County community/neighborhood plans, or Community Standards Districts. ☒ ☐ ☐ ☐

The Project's land use designation per OVOV is H2-Residential 2, an urban land use designation providing for residential neighborhoods at densities that require urban services. The Project's land uses, consisting of single-family residences, recreation building, parks, playgrounds, trails, a vineyard and a water tank, are consistent with the H-2-Residential 2 designation. The following approvals are being requested as part of the proposed project:

A Conditional Use Permit (CUP) authorizing (1) density-controlled development (LACC 22.24.150 & 22.56.205); (2) a CSD significant ridgeline exemption with respect to the westerly ridgeline for open space and access via extension of Barcelona Place to permit pedestrian and vehicular access between the residential areas of the proposed project, the residential community, and to Castaic Elementary School and Castaic Middle School to the north, related infrastructure and stabilization of a pre-existing sand mining operation. (LACC 22.44.137.D.6.d.i(B); (3) grading and development in accordance with the County's hillside management criteria (LACC 22.56.215); and (4) an on-site grading project involving more than 100,000 cubic yards of cut/fill (LACC 22.56.210). In addition, a CUP is requested for the installation of a an additional 850,000 gallon water tank (LACC 22.24.150).

An Oak Tree Permit for removal of one protected, non-heritage oak tree on the Property.

A Variance to authorize the non-exempted development of the easterly ridgeline, which is a mapped CSD significant ridgeline located on the property that has been substantially graded pursuant to the Prior Entitlements. The westerly ridgeline and areas to the west of that ridgeline will be preserved as open space and avoided except for the construction of trails, landscape areas and the extension of Barcelona Place to provide public access to these areas.

Consistency with applicable plans, specifically the Los Angeles County Santa Clarita Valley Area Plan (One Valley One Vision or OVOV), is also a component of the necessary land use analysis. In recognition of the importance of land use planning to the County, and the necessity for the Project to demonstrate compliance with the regulatory framework, it is recommended that this topic be further analyzed in an EIR.

c) Be inconsistent with the zoning designation of the subject property? ☐ ☐ ☐ ☒

The zoning on the Project site is A-2-2 (Heavy Agriculture, 2-acre Minimum Lot Area) which allows for single-family dwelling units. No further analysis of this topic is necessary and no mitigation measures are required.

d) Conflict with Hillside Management Criteria, SEA Conformance Criteria, or other applicable land use criteria? ☐ ☒ ☐ ☐

Please see 7.f., above for a discussion of the Project's consistency with Hillside Management Criterion. The project is not located within an SEA or other special land use designation. The project should be further evaluated to determine full consistency with the LA County Healthy Design Ordinance (HDO), and should be further addressed in an EIR.

12. MINERAL RESOURCES

Would the project:	*Potentially Significant Impact*	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒

There are no mapped sand and gravel mineral resources on the Project site. The site does overlay a former oil field. Consequently, there are no known mineral resources on the Project site that would be of value to the region or to residents of the state. No further analysis of this topic is necessary and no mitigation measures are required.

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

The Project site does not contain locally important mineral resources delineated on a general plan, specific plan, or other land use plan. No further analysis of this topic is necessary and no mitigation measures are required.

13. NOISE

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
Would the project result in:				
a) Exposure of persons to, or generation of, noise levels in excess of standards established in the County noise ordinance (Los Angeles County Code, Title 12, Chapter 12.08) or the General Plan Noise Element?	☒	☐	☐	☐

Construction activities may exceed County Noise Ordinance standards with regards to existing housing adjacent to the Project site. Operational noise would also be increased due to the new uses on the project site. Therefore, it is recommended that this topic be analyzed further in an EIR.

b) Exposure of sensitive receptors (e.g., schools, hospitals, senior citizen facilities) to excessive noise levels?	☒	☐	☐	☐

The Project may expose sensitive receptors such as schools to high levels of construction noise. The Castaic Middle School Campus is located immediately north of the project site and Live Oak Elementary School is located approximately 0.6 miles southeast of the project site. Therefore, it is recommended that this topic be analyzed further in an EIR.

c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project, including noise from parking areas?	☒	☐	☐	☐

Currently the Project site is vacant and no noise is generated on the Project site. Development of the Project site will create an increase in ambient noise not currently on the Project site. Therefore, it is recommended that this topic be analyzed further in an EIR.

d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project, including noise from amplified sound systems?	☒	☐	☐	☐

Currently the Project site is vacant and no noise is generated on the Project site. Development of the Project site may create temporary or periodic increase in ambient noise levels not currently on the Project site. Therefore, it is recommended that this topic be analyzed further in an EIR.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

The Project site is not located within an airport land use plan or within 2 miles of a public airport. No further analysis of this topic is necessary and no mitigation measures are required.

f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

The Project site is not located within the vicinity of a private airstrip. No further analysis of this topic is necessary and no mitigation measures are required.

14. POPULATION AND HOUSING

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☒	☐	☐

The Project site has an Area Plan designation and Zoning designation that allows for single-family residential units. The project will induce some growth through the construction of 497 new homes and more than five miles of additional road infrastructure. Therefore, further analysis of this topic is necessary and additional mitigation measures may be required.

b) Cumulatively exceed official regional or local population projections?	☐	☐	☒	☐

The Project site has an Area Plan and Zoning designation that allows for single-family residential units and is accounted for in official regional and local population projections (OVOV Area Plan). No further analysis of this topic is necessary and no mitigation measures are required.

c) Displace existing housing, especially affordable housing?	☐	☐	☐	☒

There are no housing units presently on the Project site; therefore, no housing units will be displaced. No further analysis of this topic is necessary and no mitigation measures are required.

d) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere.?	☐	☐	☐	☒

There are no housing units or persons presently residing on the Project site, therefore no housing units will be required elsewhere. No further analysis of this topic is necessary and no mitigation measures are required.

15. PUBLIC SERVICES

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Would the project create capacity or service level problems, or result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
Fire protection?	☒	☐	☐	☐

The construction of 497 single- family residential units may impact fire protection services. Therefore, it is recommended that this topic be analyzed further in an EIR.

Sheriff protection?	☒	☐	☐	☐

The construction of 497 single-family residential units may impact sheriff protection services. Therefore, it is recommended that this topic be analyzed further in an EIR.

Schools?	☒	☐	☐	☐

The construction of 497 single-family residential units may impact school services. Potential impact analysis to Castaic Union School District and the Wm. S. Hart Union High School District facilities is required. It is recommended that this topic be analyzed further in an EIR.

Parks?	☒	☐	☐	☐

The construction of 497 single-family residential units may create impacts to local and regional parks. However, the Project proposes a community recreation center controlled by a homeowner's association, an approximately 19-acre community park, seven private recreation lots which provide neighborhood park amenities, and approximately 5 miles of pedestrian trails and accompanying infrastructure and public and private roadways. It is recommended that this topic be analyzed further in an EIR.

Libraries?	☒	☐	☐	☐

The construction of 497 single-family residential units may impact regional library services. Therefore, it is recommended that this topic be analyzed further in an EIR.

Other public facilities?	☒	☐	☐	☐

Other local and regional public facilities (such as religious and cultural) that would be impacted as a result of Project development have not yet been identified or analyzed. Thus, further analysis of this topic is necessary in an EIR, and mitigation measures may be required.

16. RECREATION

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☒	☐	☐

The proposed Project may increase the use of existing neighborhood and regional parks or other recreational facilities. However, the Project proposes a community recreation center controlled by a homeowner's association, an approximately 19-acre community park, seven private recreation lots which provide neighborhood park amenities, and approximately 5 miles of pedestrian trails and accompanying infrastructure and public and private roadways. It is recommended that this topic be analyzed further in an EIR.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

The Project has allocated land for an approximately 19-acre community park, seven private recreation lots which provide neighborhood park amenities including tot lots, and approximately 5 miles of pedestrian trails. Although grading and construction of recreational facilities may have a significant impact on the environment, these impacts will not be distinguishable from and will be considered as part of the overall impact of the Project construction. It is not expected that the Project would require the expansion of existing recreational facilities. No further analysis of this topic is necessary and no mitigation measures are required.

c) Is the project consistent with the Department of Parks and Recreation Strategic Asset Management Plan for 2020 (SAMP) and the County General Plan standards for the provision of parkland?	☐	☒	☐	☐

Further analysis is required to determine Project compliance with the Department of Parks and Recreation Strategic Asset Management Plan for 2020 and the County General Plan standards for the provision of parkland.

d) Would the project interfere with regional open space connectivity?	☐	☒	☐	☐

232 acres of the Property will be preserved for recreational and open space use and will include an approximately 19 acre public park, approximately 5 miles of trails, preservation of the majority of the westerly mapped significant ridgeline and Hasley Canyon Creek, a blue line stream, in the southwesterly portion of the Property. The Property climbs over 400 feet in elevation from Hasley Canyon Road on the south to the northern boundary of the Property and contains many variations in elevation throughout. The Project is surrounded by existing development including single-family residential development to the north and east; the Val Verde community to the southwest, single-family and equestrian uses to the west and manufacturing/industrial uses to the south. As extensive development to the north, east, and south, and additional development to the west of the Project Site already substantially constrain open space connectivity in the area, the Project has the potential to further restrict impacts to open space connectivity in the area. Therefore, it is recommended that this topic be analyzed further in an EIR.

17. TRANSPORTATION/TRAFFIC

Would the project:	*Potentially Significant Impact*	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Conflict with an applicable plan, ordinance, or policy establishing a measure of effectiveness for the performance of the circulation system, taking into account all modes of transportation, including mass transit and non-motorized travel, and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit? Measures of performance effectiveness include those found in the most up-to-date Southern California Association of Governments (SCAG) Regional Transportation Plan, County Congestion Management Plan, and County General Plan Mobility Element.	☒	☐	☐	☐

The Project proposes 497 residential dwelling units. A traffic study is required to determine potential impacts to the circulation system and consistency with the SCAG Regional Transportation Plan, Congestion Management Plan, and County General Plan Mobility Element both from construction and operation of the Project. Lacking adequate bikeway connectivity and facilities, the project may encourage additional and unnecessary vehicle trips for short distances (three miles or less). It is recommended that the Project's potential for impacts during construction and operation and its consistency with policies, plans, and programs supporting alternative transportation be further analyzed in an EIR.

b) Exceed the County Congestion Management Plan (CMP) Transportation Impact Analysis thresholds?	☐	☒	☐	☐

A traffic study is required to determine the potential impacts to the Congestion Management Plan. It is recommended that this topic be analyzed further in an EIR.

c) Conflict with an applicable congestion management program, including, but not limited to, level of service standards and travel demand measures, or other standards established by the CMP, for designated roads or highways (50 peak hour vehicles added by project traffic to a CMP highway system intersection or 150 peak hour trips added by project traffic to a mainline freeway link)?	☐	☒	☐	☐

Lacking adequate bikeway connectivity and facilities, the project may encourage additional and unnecessary vehicle trips for short distances (three miles or less). A traffic study is required to determine the potential impacts to the Congestion Management Plan. It is recommended that this topic be analyzed further in an EIR.

d) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	☐	☐	☐	☒

The proposed Project includes the construction of 497 single-family dwelling units and associated amenities. Housing structures are proposed at no more than two stories. As such, the proposed Project would not result in a change to air traffic patterns. No further analysis of this topic is necessary and no mitigation measures are required.

e) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐

The Vesting Tentative Tract Map design orientation does not include sharp curves or dangerous intersections nor would it permit incompatible uses. Farm equipment may be used for vineyard/orchard activities but given the small scale of the vineyard/orchard, and the relative small usage of specialized farming equipment, no adverse impacts would be expected. No further analysis of this topic is necessary and no mitigation measures are required.

f) Result in inadequate emergency access?	☐	☒	☐	☐

The proposed Project would not interfere with or physically impair an adopted emergency response plan or emergency evacuation plan. By providing public roadway linkages to development in the north and east of the Property via Barcelona Road and Hayward Drive, respectively, the Project improves access for public services, including police and fire personnel. Some private streets are proposed to be gated. Some further analysis of this topic is necessary and mitigation measures may be required.

g) Conflict with the Bikeway Plan, Pedestrian Plan, Transit Oriented District development standards in the County General Plan Mobility Element, or other adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	☐	☒	☐	☐

The proposed Project may conflict with the 2012 LA County Master Plan of Bikeways and other policies that promote alternative transportation modes. There is a proposed Class III bike path along Hasley Canyon Rd. abutting the project to the south. The Project currently does not propose any bikeways or bikeway connections adjacent to or within the proposed development area. Additional analysis is needed and mitigation measures may be required.

h) Decrease the performance or safety of alternative transportation facilities?	☐	☒	☐	☐

As there are proposed public bikeways in close proximity located offsite to the north (at the intersection of Barcelona Rd. and Madloy St.) and immediate south of the project, the project may decrease the performance of alternative transportation facilities (bikeways), since no north-south connection is currently proposed through the development. Further analysis of this topic is necessary and mitigation measures may be required.

18. UTILITIES AND SERVICE SYSTEMS

Would the project:	*Potentially Significant Impact*	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Exceed wastewater treatment requirements of the Los Angeles or Lahontan Regional Water Quality Control Boards?	☒	☐	☐	☐

The proposed Project has the potential to exceed wastewater treatment requirements of the Los Angeles Regional Water Quality Control Board. Most wastewater generated within the Santa Clarita Valley is treated at two existing Water Reclamation Plants (WRPs), which are operated by the Santa Clarita Valley Sanitation District (SCVSD). The SCVSD is a member of the County Sanitation Districts of Los Angeles County (CSDLAC). The existing Saugus WRP is located at 26200 Springbrook Avenue in Saugus. The existing Valencia WRP is located at 28185 The Old Road in Valencia. Therefore, it is recommended that this topic be analyzed further in an EIR.

b) Create water or wastewater system capacity problems, or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☒	☐	☐	☐

The proposed Project has the potential to create water or wastewater system capacity problems. The existing wastewater facilities and Sanitation Districts within the immediate vicinity of the project site that provide primary, secondary, and tertiary treatment. The SCVSD has a permitted treatment capacity of 28.1 million gallons per day (mgd) and a treated average of 20.5 mgd. As such, it is recommended that this topic be analyzed further in an EIR. The Applicant has constructed and dedicated a water well and water system improvements to the District, all of which have been accepted by the District and are operational. An additional non-potable water well and retention facilities may be constructed on the Property to address irrigation needs of the Project. It is recommended that this topic be analyzed further in an EIR.

c) Create drainage system capacity problems, or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	☒	☐	☐	☐

The proposed Project has the potential to create drainage system capacity problems. Storm water drainage facilities would be required to size facilities to accommodate the projects storm water. It is recommended that this topic be analyzed further in an EIR.

d) Have sufficient reliable water supplies available to serve the project demands from existing entitlements and resources, considering existing and projected water demands from other land uses? ☒ ☐ ☐ ☐

Water District 36 would serve the proposed project. Additionally, the Los Valles project water demand was used in the preparation of the 2010 Urban Water Management Plan. A water supply assessment will be prepared and it is recommended that this topic be analyzed further in an EIR.

e) Conflict with the Los Angeles County Low Impact Development Ordinance (L.A. County Code, Title 12, Ch. 12.84 and Title 22, Ch. 22.52) or Drought Tolerant Landscaping Ordinance (L.A. County Code, Title 21, § 21.24.430 and Title 22, Ch. 21, Part 21)? ☐ ☒ ☐ ☐

The previously approved project received approval to be regulated under Order No. R4-2003-0108, *General National Pollutant Discharge Elimination System (NPDES) and Waste Discharge Requirements for Discharges of Groundwater from Potable Water Supply Wells to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties*, adopted by the Los Angeles County Regional Water Quality Control Board on August 7, 2003. Because the proposed Project is substantially changed from the previously approved project a new NPDES permit would be required. Although the Project will be required to comply with the Los Angeles County Low Impact Development Ordinance, the best management practices have yet to be determined for the Project site. It is recommended that this topic be analyzed further in an EIR.

f) Create energy utility (electricity, natural gas, propane) system capacity problems, or result in the construction of new energy facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? ☐ ☒ ☐ ☐

The proposed Project has the potential to create energy utility (electricity and natural gas) system capacity problems. It is recommended that this topic be analyzed further in an EIR.

g) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs? ☒ ☐ ☐ ☐

Landfills are a finite resource with limited capacity. Even with recycling efforts waste (both construction and operational) will be generated by the Project in amounts that have yet to be determined. It is recommended that this topic be analyzed further in an EIR.

h) Comply with federal, state, and local statutes and regulations related to solid waste? ☐ ☐ ☒ ☐

All proposed developments, including the proposed Project, must comply with federal, state, and local statutes and regulations related to solid waste. No further analysis of this topic is necessary and no mitigation measures are required.

19. MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	*Less Than Significant Impact with Mitigation Incorporated*	*Less Than Significant Impact*	*No Impact*
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☒	☐	☐	☐

As discussed within this Initial Study, the Project could result in environmental impacts that have the potential to degrade the quality of the environment as addressed herein. Potentially affected resources include Aesthetics, Air Quality, Biological Resources, Greenhouse Gases, Land Use and Planning, Noise, Public Services, and Utilities. An EIR will be prepared to analyze and document these potentially significant impacts.

As discussed in Section 4, above, the Project would not substantially reduce the habitat of fish or wildlife species.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☒	☐	☐	☐

The Project has the potential to have impacts which are individually limited but cumulatively considerable. All cumulative impacts will be further analyzed in an EIR.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☒	☐	☐	☐

The proposed Project may have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly. Both direct and indirect impacts on human beings will be further analyzed in an EIR.

APPENDIX 1.0-2

Comments on Notice of Preparation

January 21, 2014

RECEIVED
JAN 23 2014
BY:_____

CASTAIC LAKE WATER AGENCY

Mr. Jodie Sackett
County of Los Angeles
Department of Regional Planning
320 West Temple Street, Room 1382
Los Angeles, CA 90012

Re: Castaic Lake Water Agency's Comments on the Notice of Preparation (NOP) of an Environmental Impact Report for the Proposed Los Valles Project

BOARD OF DIRECTORS
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GENERAL MANAGER
DAN MASNADA
GENERAL COUNSEL
BEST BEST & KRIEGER, LLP
SECRETARY
APRIL JACOBS

Dear Mr. Sackett:

The Castaic Lake Water Agency (CLWA) submits the following comments in order to provide guidance to the Los Angeles County Department of Regional Planning consistent with the intent of the California Environmental Quality Act (CEQA) regarding NOP responses (CEQA Guidelines Section 15082(b)). Though CLWA will not be a responsible agency as defined in CEQA, CLWA is an interested agency. Therefore, we have included a discussion of potentially significant environmental issues for water utilities that should be addressed in the DEIR.

Potentially Significant Environmental Impacts

The evaluation of the proposed project and any alternatives in the EIR should address the following potential impacts to Water Service Utilities:

1. The project is proposing 497 single-family detached residential units, community recreation center, a 19-acre community park, seven private recreational lots and supporting infrastructure. If the project represents a ten percent or greater increase in the average total demand of the Los Angeles County Waterworks District #36, then the preparation of a water supply assessment (WSA) is required in accordance with the State Water Code (Section 10912 (b)).

2. The project includes an optional well and the impacts from the operation of such a well on local water supplies needs to be addressed in the WSA and both the hydrology and water utilities section of the DEIR.

3. The project may have a significant water demand and have a potential significant impact to water utilities as noted in the NOP. The 2010 Urban Water Management Plan should be used as the latest and most accurate information to provide the background discussion on available water supply and forecasted demand. The document can be found on the CLWA website at http://clwa.org/publications/2010-urban-water-management-plan.

4. The 2010 Urban Water Management Plan documents a strategy for compliance with SBX7-7 which requires that the Santa Clarita Valley achieve a twenty percent per capita reduction in potable water demand by the year 2020. The strategy includes reliance on all new development in the Santa Clarita Valley using water conservation technology and meeting new code requirements and the efficient use of irrigation in any outdoor landscaped areas. CLWA staff can be consulted for the latest developments in water use efficiency.

5. In order to construct water supply infrastructure for the project and other projects in the area, the project will be subject to CLWA Facility Capacity Fees for which payment is required prior to the issuance of building permits.

CLWA appreciates having the opportunity to respond to the NOP and looks forward to reviewing the Draft EIR. If you have any questions regarding these comments, please contact Jeff Ford, Principal Water Resources Planner, at (661) 513-1281.

Sincerely,

Dan Masnada
General Manager

cc: Adam Ariki, District Engineer, Los Angeles County Waterworks District #36

January 21st 2014

To: Ms Jodie Sackett

From: Michael J Gomes, resident/owner at 29723 Byron Place, Castaic CA 91384

Re: Los Valles housing development

Dear Ms Sackett,

I understand there is an environmental impact statement meeting on January 16th (this week). My wife and I will not be able to attend as we will be out of town on business, but I wanted to add my two cents.

While I was not a fan of the prior plan, at least the prior plan was to build less than 300 houses and build a golf course. With the golf course, this would have certainly attracted enough buyers to fill the development with new home buyers. Now that has changed with the plans now having nearly 500 new homes built there.

If you look on any major real estate website, the average days Castaic homes are on the market is very high, with some homes not selling for as long as a year or more. Very little of the 91384 inventory has been on the market for less than 30 days, with the Redfin average showing *208 days as average*. In other words, this area is not able to move the inventory it already has, let alone adding nearly 500 more to it.

We're already on the outskirts, those of us who live in the neighboring Hasley Hills HOA and Val Verde communities. There is very little business service for those of us there, and no gas station. In other words, the community existing already tends to travel to the more populated centers of the Santa Clarita Valley for things they need such as gas, schools, markets, jobs. This community is also filled with people who moved there *because* it is not "in the middle" of everything. Not because we wanted to be surrounded by another development.

I am asking that the negative impacts be taken into account before a decision is made: to the environment, to the existing home owners, and to the already lackluster housing market in this area.

Respectfully,

Michael J. Gomes,
no reply necessary but my contact info if needed: mike@jandjroofing.com, 661 221 1516

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

RECEIVED
JAN 21 2014
BY:

January 17, 2014

Jodie Sackett
County of Los Angeles
Department of Regional Planning
Land Divisions Section
320 West Temple Street, Room 1382
Los Angeles, CA 90012

Notice of Preparation of a CEQA Document for the
Los Valles Project

The South Coast Air Quality Management District (SCAQMD) staff appreciates the opportunity to comment on the above-mentioned document. The SCAQMD staff's comments are recommendations regarding the analysis of potential air quality impacts from the proposed project that should be included in the draft CEQA document. Please send the SCAQMD a copy of the Draft EIR upon its completion. Note that copies of the Draft EIR that are submitted to the State Clearinghouse are not forwarded to the SCAQMD. Please forward a copy of the Draft EIR directly to SCAQMD at the address in our letterhead. **In addition, please send with the draft EIR all appendices or technical documents related to the air quality and greenhouse gas analyses and electronic versions of all air quality modeling and health risk assessment files. These include original emission calculation spreadsheets and modeling files (not Adobe PDF files). Without all files and supporting air quality documentation, the SCAQMD will be unable to complete its review of the air quality analysis in a timely manner. Any delays in providing all supporting air quality documentation will require additional time for review beyond the end of the comment period.**

Air Quality Analysis

The SCAQMD adopted its California Environmental Quality Act (CEQA) Air Quality Handbook in 1993 to assist other public agencies with the preparation of air quality analyses. The SCAQMD recommends that the Lead Agency use this Handbook as guidance when preparing its air quality analysis. Copies of the Handbook are available from the SCAQMD's Subscription Services Department by calling (909) 396-3720. More recent guidance developed since this Handbook was published is also available on SCAQMD's website here: www.aqmd.gov/ceqa/hdbk.html. SCAQMD staff also recommends that the lead agency use the CalEEMod land use emissions software. This software has recently been updated to incorporate up-to-date state and locally approved emission factors and methodologies for estimating pollutant emissions from typical land use development. CalEEMod is the only software model maintained by the California Air Pollution Control Officers Association (CAPCOA) and replaces the now outdated URBEMIS. This model is available free of charge at: www.caleemod.com.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, that is, sources that generate or attract vehicular trips should be included in the analysis.

The SCAQMD has also developed both regional and localized significance thresholds. The SCAQMD staff requests that the lead agency quantify criteria pollutant emissions and compare the results to the recommended regional significance thresholds found here: http://www.aqmd.gov/ceqa/handbook/signthres.pdf. In addition to analyzing regional air quality impacts, the SCAQMD staff recommends calculating localized air quality impacts and comparing the results to localized significance thresholds (LSTs). LST's can be used in addition to the recommended regional

significance thresholds as a second indication of air quality impacts when preparing a CEQA document. Therefore, when preparing the air quality analysis for the proposed project, it is recommended that the lead agency perform a localized analysis by either using the LSTs developed by the SCAQMD or performing dispersion modeling as necessary. Guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/ceqa/handbook/LST/LST.html.

In the event that the proposed project generates or attracts vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the lead agency perform a mobile source health risk assessment. Guidance for performing a mobile source health risk assessment ("*Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*") can be found at: http://www.aqmd.gov/ceqa/handbook/mobile_toxic/mobile_toxic.html. An analysis of all toxic air contaminant impacts due to the use of equipment potentially generating such air pollutants should also be included.

In addition, guidance on siting incompatible land uses (such as placing homes near freeways) can be found in the California Air Resources Board's *Air Quality and Land Use Handbook: A Community Perspective*, which can be found at the following internet address: http://www.arb.ca.gov/ch/handbook.pdf. CARB's Land Use Handbook is a general reference guide for evaluating and reducing air pollution impacts associated with new projects that go through the land use decision-making process.

Mitigation Measures

In the event that the project generates significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized during project construction and operation to minimize or eliminate these impacts. Pursuant to state CEQA Guidelines §15126.4 (a)(1)(D), any impacts resulting from mitigation measures must also be discussed. Several resources are available to assist the Lead Agency with identifying possible mitigation measures for the project, including:

- Chapter 11 of the SCAQMD *CEQA Air Quality Handbook*
- SCAQMD's CEQA web pages at: www.aqmd.gov/ceqa/handbook/mitigation/MM_intro.html
- CAPCOA's *Quantifying Greenhouse Gas Mitigation Measures* available here: http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf.
- SCAQMD's Rule 403 – Fugitive Dust, and the Implementation Handbook for controlling construction-related emissions
- Other measures to reduce air quality impacts from land use projects can be found in the SCAQMD's Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning. This document can be found at the following internet address: http://www.aqmd.gov/prdas/aqguide/aqguide.html.

Data Sources

SCAQMD rules and relevant air quality reports and data are available by calling the SCAQMD's Public Information Center at (909) 396-2039. Much of the information available through the Public Information Center is also available via the SCAQMD's webpage (http://www.aqmd.gov).

The SCAQMD staff is available to work with the Lead Agency to ensure that project emissions are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at imacmillan@aqmd.gov or call me at (909) 396-3244.

Sincerely,

Ian MacMillan
Program Supervisor, CEQA Inter-Governmental Review
Planning, Rule Development & Area Sources

LAC131227-04
Control Number

DEPARTMENT OF TRANSPORTATION
DISTRICT 7, TRANSPORTATION PLANNING
IGR/CEQA BRANCH
100 MAIN STREET, MS # 16
LOS ANGELES, CA 90012-3606
PHONE: (213) 897-9140
FAX: (213) 897-1337

Flex your power!
Be energy efficient!

January 16, 2014

Mr. Jodie Sackett
Los Angeles County
320 West Temple Street
Los Angeles, CA 90012

IGR/CEQA No. 131254AL-NOP
Los Valles Project
Vic. LA-05, PM R56.602, LA-126, PM R4.885
SCH # 2013121056

Dear Mr. Sackett:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The proposed project is a single-family residential development of 497 dwelling units on lot size ranging from approximately 7,000 to 12,000 square feet, together with community amenities for residents and the public including a community recreation center controlled by a homeowner's association, an approximately 19 acre community park, seven private recreational lots, and approximately 5 miles of pedestrian trails and accompanying infrastructure and public and private roadways.

In Caltrans' Guide for the Preparation of Traffic Impact Studies, December 2002, "The level of service (LOS) for operating State highway facilities is based upon measures of effectiveness (MOEs). Caltrans endeavors to maintain a target LOS at the transition between LOS 'C' and LOS 'D' on State highway facilities. If an existing State highway facility is operating at less than the appropriate target LOS, the existing MOE should be maintained." The surrounding freeways 5 and 126 may be operating at LOS E or F during the peak hours. When additional traffic trips are assigned to those freeways, existing LOS should be maintained.

To assist in evaluating the impacts of this project on State transportation facilities, a traffic study should be prepared prior to preparing the Draft Environmental Impact Report (DEIR). Please refer the project's traffic consultant to Caltrans' traffic study guide Website:

http://www.dot.ca.gov/hq/tpp/offices/ocp/igr_ceqa_files/tisguide.pdf

Listed below are some elements of what is generally expected in the traffic study:

1. Presentations of assumptions and methods used to develop trip generation, trip distribution, choice of travel mode, and assignments of trips to SR-126 and I-05, and all on/off ramps including Northbound (NB) I-05 off-ramps at Lake Hughes Road (Exit 176B), Parker Rd./Ridge Rte Rd. (Exit 176A), Southbound (SB) I-05 on-ramp at Parker Rd., NB/SB I-05 on/off ramps (Exit 173) at the Hasley Canyon Rd./Old Road including the two roundabouts,

I-05 and SR-126 Interchange, and intersection at Commerce Center Dr. and SR-126. Caltrans has concerns about queuing of vehicles using off-ramps that will back into the mainline through lanes. It is recommended that the City determine whether project-related plus cumulative traffic is expected to cause long queues on the on and off-ramps. We would like the lead agency to disclose the direct/and cumulative traffic impact for the off-ramps by preparing a queuing analysis using 85th percentile. To assist you, we would like to meet with the traffic consultant to identify exact study locations on the State facilities before preparing the Environmental Impact Report (EIR) and/or traffic study.

2. Consistency of project travel modeling with other regional and local modeling forecasts and with travel data. The Caltrans may use indices to verify the results and any differences or inconsistencies must be thoroughly explained.

3. Analysis of ADT, AM and PM peak-hour volumes for both the existing and future conditions in the affected area. Utilization of transit lines and vehicles, and of all facilities, should be realistically estimated. Future conditions should include build-out of all projects and any plan-horizon years. (see next item)

4. Inclusion of all appropriate traffic volumes. Analysis should include existing traffic, traffic generated by the project, cumulative traffic generated from all specific approved developments in the area, and traffic growth other than from the project and developments.

5. Discussion of mitigation measures appropriate to alleviate anticipated traffic impacts. These mitigation discussions should include, but not be limited to, the following:

    - Description of Transportation Infrastructure Improvements
    - Financial Costs, Funding Sources and Financing
    - Sequence and Scheduling Considerations
    - Implementation Responsibilities, Controls, and Monitoring

    Any mitigation involving transit or Transportation Demand Management (TDM) should be justified and the results conservatively estimated. Improvements involving dedication of land or physical construction may be favorably considered.

6. Caltrans may accept fair share contributions toward pre-established or future improvements on the State Highway System. Please use the following ratio when estimating project equitable share responsibility: additional traffic volume due to project implementation is divided by the total increase in the traffic volume (see Appendix "B" of the Guide).

    Please note that for purposes of determining project share of costs, the number of trips from the project on each traveling segment or element is estimated in the context of forecasted traffic volumes, which include build-out of all approved and not yet approved projects and other sources of growth. Analytical methods such as select-zone travel forecast modeling might be used.

    Please be reminded that as the responsible agency under CEQA, the Caltrans has authority to determine the required freeway analysis for this project and is responsible for obtaining measures that will off-set project vehicle trip generation that worsens State Highway

facilities. CEQA allows the Caltrans to develop criteria for evaluating impacts on the facilities that it manages. In addition, the County CMP standards states that the Caltrans should be consulted for the analysis of State facilities. State Routes mentioned in item #1 should be analyzed, preferably using methods suggested in the Caltrans's Traffic Impact Study Guide. To help determine the appropriate scope, we suggest that a select zone model run may be performed. We welcome the opportunity to provide consultation regarding the Caltrans's preferred scope and methods of analysis.

We look forward to reviewing the traffic study and expect to receive a copy from the State Clearinghouse when the DEIR is completed. Should you wish to expedite the review process or receive early feedback from the Caltrans please feel free to send a copy of the DEIR directly to our office.

As discussed in your telephone conversation on January 16, 2014 with Alan Lin, Project Coordinator, we would like to extend an invitation to meet with the County and the traffic consultant early in the process to discuss potential traffic impacts to the State facilities and possible mitigation measures prior to the preparation of the EIR.

If you have any questions, please feel free to contact Alan Lin the project coordinator at (213) 897-8391 and refer to IGR/CEQA No. 131254AL.

Sincerely,

DIANNA WATSON
IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse

Los Angeles County
Department of Regional Planning

Planning for the Challenges Ahead

Public Input Form - Los Valles Development
Scoping Meeting – January 16, 2014
Project No. 98-034 / Case No(s). ENV 201300138, Revised TR52584, VAR201300003, CUP201300081, OAK201300023

Proposed Project:
The proposed project consists of development of 497 dwelling units with lot sizes ranging from 7,000 to 12,000 square feet along with a community recreation center, 19-acre community park, 7 private recreational lots, and approximately 5 miles of pedestrian trails. Approximately 232 acres of the 430.4 acre site will be devoted to recreation and open space. A previous project on the site was approved in 2002 (Vesting Tentative Map 52584), leading to substantial grading of the site (in excess of 12 million cubic yards) and infrastructure, including installation of utility lines and roadways, pads for 209 single family homes and golf course fairways, and a 750,000 gallon water tank.

This form allows you to make comments on what you believe should be addressed in the Draft Environmental Impact Report. You may submit your comments at this scoping meeting or mail to the Department of Regional Planning. Written comments on the Notice of Preparation (NOP) for the Environmental Impact Report will be accepted until **January 31, 2014 at 5:00 PM.**

Comments: I am concerned with the east facing hill that is above a storm drain. It was graded and V ditches were added by the previous project approved in 2002. This hill was supposed to be landscaped, it is now just weeds. We were told by the County that this hill would be sprinkled and landscaped using bond money given by the 2002 developer. The new developer needs to carry this out. The County needs to make sure that all proposed plans be completed including parks and accessible to the public. (over)

You may also indicate if you would like to receive notices for hearings on the project. If you wish to receive a notice, please include your name and full address. The EIR will be available at local libraries and the County Regional Planning office in Downtown Los Angeles. The document, when made public, will also be accessible on the internet for review at http://planning.lacounty.gov/case/view/silverado/. Individual copies may be obtained through a bonded printer.

Name: John Toungaian
Address: 29929 Bancroft Pl.
City/State/ZIP: Castaic, CA 91384

Los Angeles County
Department of Regional Planning

Planning for the Challenges Ahead

Public Input Form - Los Valles Development
Scoping Meeting – January 16, 2014
Project No. 98-034 / Case No(s). ENV 201300138, Revised TR52584, VAR201300003, CUP201300081, OAK201300023

Proposed Project:
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This form allows you to make comments on what you believe should be addressed in the Draft Environmental Impact Report. You may submit your comments at this scoping meeting or mail to the Department of Regional Planning. Written comments on the Notice of Preparation (NOP) for the Environmental Impact Report will be accepted until **January 31, 2014 at 5:00 PM.**

RECEIVED
JAN 30 2014
BY:

Comments: THE EIR SHOULD ADDRESS 1) ITEM m ON PAGE 30 TALKS ABOUT NO STRUCTURES IN THE HASLEY CREEK FLOODWAY BUT IT APPEARS THAT THEY ARE LOOKING TO ADJUST THE FLOODPLAIN SO THAT THEY CAN PLACE A WATER TANK OUTSIDE THOES LIMITS. WHILE THE SCOPING REPORT SUGGESTS THAT NO ADDITIONAL REVIEW IS NEEDED, I FEEL IT SHOULD BE REVIEWED. 2) THERE IS A LOT OF DISCUSSION ON HOW THE PROJECT IS CONSISTENT WITH THE CURRENT OVOV (H2 IN ONE VALLEY ONE VISION) ON PAGE 32 SECTION B, BUT IS ZONED A-2-2 IN SECTION C AND ON THE MAP. THIS NEEDS TO BE CLARIFIED.

You may also indicate if you would like to receive notices for hearings on the project. If you wish to receive a notice, please include your name and full address. The EIR will be available at local libraries and the County Regional Planning office in Downtown Los Angeles. The document, when made public, will also be accessible on the internet for review at http://planning.lacounty.gov/case/view/silverado/. Individual copies may be obtained through a bonded printer.

Name: SAUGUS PROPERTIES / DONALD CLEM

Address: 23932 PASEO DEL CAMPO

City/State/ZIP: LAGUNA NIGUEL, CA 92677

TEL: 949-495-7472

FAX: 949-495-4635

COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294

DARYL L. OSBY
FIRE CHIEF
FORESTER & FIRE WARDEN

RECEIVED
JAN 16 2014
BY:_____

January 14, 2014

Jodie Sackett, Planner
Department of Regional Planning
Land Divisions Section
320 West Temple Street
Los Angeles, CA 90012

Dear Mr. Sackett:

PREPARATION, PROJECT NO. 98-034, "LOS VALLES PROJECT," IS PROPOSING CONSTRUCTION OF A SINGLE-FAMILY RESIDENTIAL DEVELOPMENT OF 497 DWELLING UNITS, 28801 HASLEY CANYON ROAD, CASTAIC (FFER #201300221)

The Preparation has been reviewed by the Planning Division, Land Development Unit, Forestry Division, and Health Hazardous Materials Division of the County of Los Angeles Fire Department. The following are their comments:

PLANNING DIVISION:

1. We will reserve our comments for the draft EIR analysis.

LAND DEVELOPMENT UNIT:

1. The proposed development will necessitate multiple ingress/egress access roads for the circulation of traffic and emergency response.
2. The development of this project must comply with all applicable fire code and ordinance requirements for construction, access, water mains, fire flows and fire hydrants.
3. This property is located within the area designated as Very High Fire Hazard Severity Zone (VHFHSZ). All applicable fire code and ordinance requirements for brush clearance and fuel modification plans must be met.

4. The Fire Prevention Division, Land Development Unit, will address more specific requirements when the draft EIR is circulated for review and comments.

5. Should any questions arise, please contact the County of Los Angeles Fire Department, Land Development Unit Inspector, Juan Padilla, at (323) 890-4243 or at Juan.Padilla@fire.lacounty.gov.

FORESTRY DIVISION – OTHER ENVIRONMENTAL CONCERNS:

1. The statutory responsibilities of the County of Los Angeles Fire Department, Forestry Division include erosion control, watershed management, rare and endangered species, vegetation, fuel modification for Very High Fire Hazard Severity Zones or Fire Zone 4, archeological and cultural resources, and the County Oak Tree Ordinance. Potential impacts in these areas should be addressed.

HEALTH HAZARDOUS MATERIALS DIVISION:

1. The review indicates active oil drilling adjacent to the property, Therefore, it is prudent to clarify if prior use of this property involved oil field activities or not. If past site use included oil field activities, required corrective measures should be taken prior to development of the property.

If you have any additional questions, please contact this office at (323) 890-4330.

Very truly yours,

Frank Vidales

FRANK VIDALES, CHIEF, FORESTRY DIVISION
PREVENTION SERVICES BUREAU

FV:jl

Jodie Sackett

From: Bellini, Sherry A SPL [Sherry.A.Bellini@usace.army.mil]
Sent: Tuesday, December 31, 2013 10:41 AM
To: Jodie Sackett
Cc: Swenson, Daniel P SPL
Subject: "Los Valles", Project 98-034 (SPL-2013-0085) (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hello Ms. Sackett,

It has come to our attention that you are evaluating a project "Los Valles" (Project No: 98-034, Case No(s): ENV 201300138, Revised TR52584, VAR201300003, CUP201300081, OAK201300023, APN(s): 2866-062-032, 2866-062-033, 3247-032-052). Located in the Castaic community of unincorporated Los Angeles, north of Haslet Canyon Rd. near its intersection with Del Valle Rd. This activity may require a U.S. Army Corps of Engineers permit.

A Corps of Engineers permit is required for:

a) structures or work in or affecting "navigable waters of the United States" pursuant to Section 10 of the Rivers and Harbors Act of 1899.
Examples include, but are not limited to,

1. constructing a pier, revetment, bulkhead, jetty, aid to navigation, artificial reef or island, and any structures to be placed under or over a navigable water;

2. dredging, dredge disposal, filling and excavation;

b) the discharge of dredged or fill material into, including any redeposit of dredged material other than incidental fallback within, "waters of the United States" and adjacent wetlands pursuant to Section 404 of the Clean Water Act of 1972. Examples include, but are not limited to,

1. creating fills for residential or commercial development, placing bank protection, temporary or permanent stockpiling of excavated material, building road crossings, backfilling for utility line crossings and constructing outfall structures, dams, levees, groins, weirs, or other structures;

2. mechanized land clearing, grading which involves filling low areas or land leveling, ditching, channelizing and other excavation activities that would have the effect of destroying or degrading waters of the United States;

3. allowing runoff or overflow from a contained land or water disposal area to re-enter a water of the United States;

4. placing pilings when such placement has or would have the effect of a discharge of fill material;

c) the transportation of dredged or fill material by vessel or other vehicle for the purpose of dumping the material into ocean waters pursuant to Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972;

d) any combination of the above.

An application for a Department of the Army permit is available on our website: http://www.usace.army.mil/Portals/2/docs/civilworks/permitapplication.pdf .

If you have any questions, please contact me (contact information below). Please refer to this letter and SPL-2013-00855 in your reply.

sincerely,

Sherry Bellini
Regulatory Assistant
Regulatory Division - CESPL-RG
U.S. Army Corps of Engineers, Los Angeles District
915 Wilshire Blvd, Los Angeles, CA 90017
213-452-3897

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

SATE OF CALIFORNIA Edmund G. Brown, Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
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RECEIVED DEC 30 2013

December 24, 2013

Ms. Jodie Sackett, Regional Planner
Los Angeles County Department of Regional Planning
320 Wet Temple Street
Los Angeles, CA 90012

RE: SCH#2013121056; CEQA Notice of Preparation (NOP); draft Environmental Impact Report (DEIR) for the **"Los Valles / Project No. 98-34 / Case Nos. ENV201300138, Revised Tract 52584, VAR 20130003, CUP 201300081, OAK 2-1300023;"** located within the Castaic Area Community Standards District; Los Angeles County, California

Dear Ms. Sackett:

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.

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 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 and monitoring 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

Happy Holidays!

Native American Contacts
Los Angeles County California
December 24, 2013

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Tataviam
Ferrnandeño

Kitanemuk & Yowlumne Tejon Indians
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Yowlumne
Kitanemuk

Fernandeno Tataviam Band of Mission Indians
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Chumash
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Shoshone Paiute
Yaqui

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John Tommy Rosas, Tribal Admin.
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Gabrielino Tongva

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(626) 926-4131

Gabrielino

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#2013121056; CEQA Notice of Preparation (NOP); draft Environmental Impact Report (DEIR) for the CLos Valles / Project No. 98-34; located in the Castaic / Santa Clarita area; of Los Angeles County, California.

APPENDIX 4.0

Los Angeles County Fuel Modification Plant List

APPENDIX IV

APPROVED PLANT LIST

This plant list is provided as a suggested, but not exclusive, guideline for Fuel Modification and Firewise Landscapes within Los Angeles County. Plants not listed (grasses, annuals etc.) may be used if approved on the Landscape Plan. Any conflicts with other County or local ordinances need to be worked out prior to plan approval. Plants approved on any given plan are for that specific species, in that approved location. Moving plants to other areas of the site, or increasing the number of plants may result in the need for an additional submittal and approval.

The plant list is arranged by plant type and includes categories for the acceptable Fuel Modification Zone, water needs, size, and appropriate geographical area for planting. A comment code is included to assist in plant selection and maintenance requirements.

DESIRABLE QUALITIES FOR LANDSCAPE PLANTS

- Ability to store water in leaves or stems.
- Produces limited dead and fine material.
- Extensive, deep root systems for controlling erosion.
- Not considered invasive.
- Ability to withstand drought.
- Prostrate or prone in form.
- Ability to withstand severe pruning.
- Low levels of volatile oils or resins.
- Ability to resprout after a fire.
- Minimal maintenance requirements.

PLANT LIST LEGEND

GEOGRAPHICAL AREA	WATER NEEDS	EVERGREEN/DECIDUOUS
C-Coastal	H-High	E-Evergreen
IV-Interior Valley	M-Moderate	D-Deciduous
D-Deserts	L-Low	E/D-Partly or Summer Deciduous
	VL-Very Low	

ZONES AND DISTANCE AWAY FROM STRUCTURES

A letter under the zone column corresponds to the appropriate zone location for that particular plant. A number on the list denotes the minimum distance allowed from any structure. Example: “A, B-15” would indicate the plant could be planted in Zone A, but should be planted no closer than 15’ from a structure. If just the letter B is present, this plant would typically be appropriate for planting anywhere within Zone B.

Trees should typically be planted no closer than one half their expected mature spread away from structures and roads or driveways that are the access routes for emergency vehicles. Example: If a particular species of tree potentially reaches 30’ in diameter, it should be planted no closer than 15’.

Zone A: Setback Zone – normally extends to 20’ but sometimes up to 50’ from structures.
Zone B: Irrigated/Transition Zone – extends from the edge of Zone A up to 100’ from structures. Irrigated areas extending past 100’, such as manufactured slopes, will need to meet the spacing and planting requirements for this zone in most cases.
Zone C: Thinning Zone – thinned native vegetation extending up to 200’ from structure.

PLANT LIST COMMENT CODE

1. Not for use in coastal areas.
2. Should not be used on steep slopes.
3. May be damaged by frost.
4. Should be thinned bi-annually to remove dead or unwanted growth.
5. Good for erosion control.
6. Grows best in well drained soils.
7. Produces flowers or fruit that attracts birds and/or butterflies
8. Adaptability can vary.
9. Can be used as a lawn substitute.
10. Showy flowers.
11. Produces edible fruit.
12. Native or native cultivar.
13. Tends to be short lived.
14. High fire resistance.
15. Dead fronds or leaves need to be removed to maintain fire safety.
16. Tolerant of heavy pruning.
17. Must be cut back after flowering.
18. May require partial shade in desert or valley areas.
19. Perennial.
20. Tolerates saline soils.
21. Grows naturally in riparian areas.
22. Good tree for lawns.
23. Produces habitat or food for wildlife.

X. May be invasive in some areas.

The desirable planting list is based on comments from numerous professionals and public agencies. These resources included the Sunset Western Garden Book, Bob Perry's Landscape Plants for Western Regions, and the California Department of Water Resources study entitled, WUCOLS (Water Use Classification of Landscape Species).

GROUNDCOVERS – REVISED 7/2011

Groundcovers in Zone A, especially woody species, should be maintained at a height of 6 inches or less in Zone A and flat areas of Zone B.
Groundcovers on slopes in Zone B within 50 feet of the structure shall be maintained at a height of 12 inches or less.
Groundcovers on slopes in Zone B outside of 50 feet from the structure should be maintained at a height of 18 inches or less.

BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-COMMENTS
Abelia grandiflora 'Prostrata'	Prostrate Glossy Abelia	B	M	1 - 2'	3 - 4'	E	C,IV - 3
Acacia redolens 'desert carpet'	Desert Carpet Acacia	B-30	L	2'	10-15'	E	C,IV,D-3,5,6,10
A. r. 'Low Boy'	Low Boy Acacia	B-30	L	3'	10-15'	E	C,IV,D-3,5,6,10
Achillea tomentosa	Woolly Yarrow	A,B	L	6 - 10"	6 - 12"	E	C,IV - 7,9,19
Aeonium species	NCN	A,B	L	varies	varies	E	C,IV-2,3,8,14
Ajuga reptans	Carpet Bugle	A,B	H	4 - 6"	2 - 4"	E	C,IV - 2,18,19
Arctostaphylos edmundsii	Little Sur Manzanita	B-30	L,VL	1 - 2'+	4 - 6'	E	C,IV - 4,6,12
A. 'Emerald Carpet'	Emerald Carpet Manzanita	B	L,VL	1'	4 - 6'	E	C,IV - 4,6,12
A. hookeri 'Monterey Carpet"	Monterey Manzanita	B	L	1-2'	8-12'	E	C,IV-6,7,12,23
A. 'Pacific Mist'	NCN	B	L	1-2'	8-10'	E	C,IV-6,7,12,23
A. uva-ursi	Bearberry	B	L	6-12"+	10-15'	E	C,IV-5,6,7,12,23
Artemisia californica 'cultivars'	Sagebrush - Prostrate Forms	B-30	L,VL	varies	varies	E	C,IV,D - 4,6,8,12,23
A. caucasica	Silver Spreader	A,B	L,VL	3-6"	2'	E	C,IV,D-4,6,12
Baccharis pilularis 'Pigeon Point'	Dwarf Coyote Brush	B	L,VL	12-24"	-6'	E	C,IV,D-4,5,12
B.p. 'Twin Peaks'	Dwarf Coyote Brush	B	L,VL	12-24"	-6'	E	C,IV,D-4,5,12
Ceanothus gloriosus	Point Reyes Ceanothus	B	L	1-2'	12-16'	E	C-6,7,10,12
Cerastium tomentosum	Snow-In-Summer	A,B	M,L	6-8"	2-3'	E	C,IV,D-10,14,19
Chamaemelum nobile	Chamomile	A,B	M	6-8"	-12"	E	C,IV,D-9,16,19
Cistus salviifolius	Sageleaf Rockrose	B	L,VL	1-2'	6'	E	C,IV,D-4,5,6,7,10,16,20
C. 'Sunset'	Rockrose	B	L,VL	1-2'	6-8'	E	C,IV,D-4,5,6,7,10,16,20
C. 'Warley rose'	Rockrose	B	L,VL	1'	4'	E	C,IV,D-4,5,6,7,10,16,20
Coprosma kirkii	NCN	B	M,L	-2'	6-8'	E	C,IV-3,4,5,8,18,20
Coreopsis auriculata 'Nana'	NCN	A,B	L,VL	5-8"	-2'	E/D	C,IV-3,8,19
Cotoneaster adpressus praecox	Cotoneaster	B	M,L	-18"	-6'	D	C,IV,D-2
C. salicifolius 'Emerald Carpet'	Prostrate Willowleaf Contoneaster	B	M,L	12-15"	-8'	E	C,IV,D-4
Dalea greggii	Trailing Indigo Bush	B	L,VL	12-18"	5-10'	E	IV,D - 6
Delosperma alba	White Training Ice Plant	A,B	L	-12"	2'	E	C,IV-10
Dichondra micrantha	Dichondra	A,B	H,M	-6"	-2'	E	C,IV-9,14,18
Drosanthemum floribundum	Rosea Ice Plant	A,B	L	-12"	1'-2'	E	C,IV-3,5,10
Duchesnea indica	Indian Mock Strawberry	A,B	L	-8"	-4'	E	C,IV,D-11,16,19
Dymondia margaretae	NCN	A,B	M,L	-3"	12-24"	E	C,IV-3,8
Erigeron glaucus	Seaside Daisy	A,B	M,L	10-12"	-2'	E	C,IV-3,6,8,10,12,18,19,20
E. karvinskianus	Santa Barbara Daisy	B	M,L	10-20"	-3'	E	C,IV-3,6,8,10,12,18,19,20
Euonymus fortunei 'Colorata'	Purple-Leaf Winter Creeper	B	M	1-2'	-6'	E	IV-1,5,8,16
Festuca glauca (cinerea)	Blue Fescue	A,B	M,L	-12"	-2'	E	C,IV,D-4
F. rubra	Red Fescue	A,B	M,L	-16"	-30"	E	C,IV,D-4,9
Fragaria chiloensis	Wild Strawberrry	A,B	L,VL	6-12"	-24"	E	C,IV,D-4,10,11,12,14,20
Gazania Hybrids	Trailing Gazania	A,B	M,L	6-10"	-24"	E	C,IV,D-10,19,X
Geranium incanum	Cranesbill	A,B	M,L	-12"	2'	E	C,IV-4,10,19,X
Glechoma hederacea	Ground Ivy	A,B	M	3-6"	-18"	E/D	C,IV,D-8,19
Helianthemum nummularium	Sunrose	A,B	M	6-8"	-3'	E	C,IV,D - 6,10
Herniaria glabra	Green Carpet	A,B	M	2-3"	16"	E	C,IV,D-6,8,9,19
Heuchera Species	Coral Bells	A,B	M,L	6"-2'	2'	E/D	C,IV,D-6,7,8,10,12,15,18,19
Hypericum calycinum	Aaron's Beard	B	M,L	6-12"	-3'	E	C,IV,D-4,5,7,16

GROUNDCOVERS – page 2

BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-COMMENTS
H. coris	St. Johnswort	B	M,L	6-12"	-2'	E	C,IV,D-4,5,7,16
Iberis sempervirens	Evergreen Candytuft	A,B	M	6-12"	-6-12"	E	C,IV,D-10,19
Iva hayesiana	Poverty Weed	B-30	L,VL	2-3'	4-5'	E	C,IV,D-4,5,12,16,23
Juniperus conferta & cultivars	Shore Juniper	B	L	1'	6-8'	E	C,!V,D-5,8,20
J. horizontalis & cultivars		B	L	1'	6-8'	E	C,!V,D-5,8,20
Laurentia fluviatilis	Blue Star Creeper	A	M	2-4"	6-12"	E	C,IV-8,19
Lysimachia nummularia	Moneywort	A	H,M	2-6"	-2'	E	C,IV -18,19
Liriope spicata	Creeping Lily Turf	A,B	M	12"	3'	E	C,IV,D-14,18
Mahonia aquifolium 'Compacta"	Compact Oregon Grape	B	M.L	1-2'	2-3'	E	C,IV-4,7,12,18,23
M. repens	Creeping Mahonia	B	M,L	2-3'	2-3'	E	C,IV-4,7,12,18,23
Myoporum 'Pacificum'	Pacific Myoporum	B	M,L	2-3'	-30'	E	C,IV-1,4,5,16
M. parvifolium	NCN	A,B	M,L	-6"	9'	E	C,IV-3,5,
M. p. 'Putah Creek'	NCN	B	M,L	1'	8'	E	C,IV-3,5,
Oenothera berlandieri	Mexican Evening Primrose	B	L,VL	10-12"	4'	E	IV,D-1,4,7,10,17,19
O. stubbei	Baja Evening Primrose	A,B	L,VL	5"	2'	E	IV,D-7,12,19
Ophiopogon japonicus	Mondo Grass	A,B	M	8-12"	12-24"	E	C,IV-14,18
Pelargonium peltatum	Ivy Geranium	A,B	M	-2'	-4'	E	IV - 1,3,7,10,19
P. tomentosum	Silver Spreader	A,B	M	-18"	2-4'	E	IV-1,3,7,10,19
Persicaria capitata	Pink Clover	A,B	M,L	-18"	3'	E	IV,D -1,10,19,X
Phyla nodiflora (Lippia repens)	Lippia	A,B	M,L	2-15"	-3'	E/D	C,IV,D-9,16,19
Potentilla tabernaemontani	Spring Cinquefoil	A,B	M,L	2-6"	-12"	E	C,IV,D-9,10,19
Ribes viburnifolium	Catalina Perfume	B	L,VL	-3'	-3'	E	C,IV - 12,18,23
Rosmarinus officinalis							
R.o. 'Huntington Carpet (Blue)'	NCN	B-30	L	-18"	-4'	E	C,IV,D - 4,5,16
R.o. 'Prostratus'	Prostrate Rosemary	B-30	L	-24"	-6'	E	C,IV,D - 4,5,16
Salvia sonomensis	Creeping Sage	B	L	8-12"	3-4'	E	C,IV-6,12,13,23
Scaevola 'Mauve Clusters'	NCN	A,B	M,L	4-6"	3-4'	E	C,IV - 6,18,19
Sedum species	Stonecrops	A,B	L,VL	varies	varies	E	C,IV - 2,8,14
Senecio mandraliscae	Chalksticks	A,B	M,L	-18"	-5'	E	C,IV - 3,14,19
S. serpens	Blue Chalksticks	A,B	M,L	-12"	-3'	E	C,IV-3,14,19
Soleirolia soleirolii	Baby's Tears	A	H,M	3-6"	-18"	E	C,IV - 3,14,18,19
Teucrium cossonii majoricum	NCN	A,B	L	8"	-2'	E	C,IV - 6,10
T. X lucidrys 'Prostratum'	Prostrate Germander	A,B	M,L	4-6"	-3'	E	C,IV,D - 4,16
Thymus praecox arcticus	Mother of Thyme	A,B	M,L	2-6"	-18"	E	C,IV,D - 8
T. pseudolanuginosus	Woolly Thyme	A,B	M,L	2-3"	-12"	E	C,IV,D - 8
Trachelospermum jasminoides	Star Jasmine	A,B	M,L	-2'	4-5'	E	C,IV,D - 5,7,10,16
Trifolium fragiferum	White Clover	A,B	M,L	6-15"	-6'	E	C,IV,D-5,9,16,19
Verbena X hybrida	Garden Verbena	A,B	L,VL	6-12"	1 1/2-3'	E	C,IV,D - 3,7,10,13
V. peruviana	NCN	A,B	L,VL	-8"	-2'	E	C,IV,D - 7, 10
V. pulchella gracilior	Moss Verbena	A,B	L,VL	12-15"	2-3'	E	C,IV,D-8,10,19
Vinca minor	Dwarf Periwinkle	A,B	M,L	12"	3'	E	IV,D - 1,5,16,18, X
Wedelia trilobata	Wedelia	B	M,L	1-2'	4-6'	E	C,IV- 3,16, 20
Zoysia tenuifolia	Korean Grass	A	M,L	-6"	-18"	E	C,IV,D - 9

SHRUBS - REVISED 7/2011

BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-COMMENTS
Abelia grandiflora	Glossy Abelia	A,B-10	M	8'	8'	E	C,IV,D - 4, 10
A. g. 'Prostrata'	Prostrate Glossy Abelia	A,B-5	M	2'	4'	E/D	C,IV,D - 10
Abutilon hybridum	Flowering Maple, Chinese Lantern	A,B-10	M	10'	10'	E	C,IV - 4
Acanthus mollis	Bear's Breech	A,B	H,M	-4'	4-6'	E/D	C,IV,D-3,8,14,16,17,18,19
Achillea filipendulina	Fernleaf Yarrow	A,B	L,VL	4-5'	2'	E	C,IV,D - 10,16,17,19
A. millefolium	Common Yarrow	A,B	L,VL	-3'	2'	E	C,IV,D - 10,16,17,19
Aeonium species	NCN	A,B	L	varies	varies	E	C,IV - 3,8,14
Agapanthus species	Lily-Of-The-Nile	A,B	M	varies	varies	E/D	C,IV - 3,4,7,10,14,19
Agave species	Agave	A,B	L,VL	varies	varies	E	C,IV,D - 3,10,14,17
Alocasia macrorrhiza	Elephant's Ear	A,B	H	5'	8'	E/D	C,IV - 3,14,18,19
Aloe species	Aloe	A,B	L,VL	varies	varies	E	C,IV, - 3,7,8,14,15
Alyogyne huegelii	Blue Hibiscus	A,B-5	M,L	5-8'	6'	E	C,IV - 3,4,10
Anigozanthos flavidus	Kangaroo Paw	A,B	M,L	3-5'	3'	E	C,IV - 3,6,7,10,19
A. manqlesii	NCN	A,B	M,L	3'	-3'	E	C,IV - 3,6,7,19
Arbutus unedo 'Compacta'	Dwarf Strawberry Tree	A,B-5	M,L	6-8'	-8'	E	C,IV,D-5,7,11,18,23
A.u. 'Elfin King'	Elfin King	A,B-5	M,L	3-5'	-6'	E	C,IV,D - 5,7,11,18,23
A.u. 'Oktoberfest'	NCN	A,B-5	M,L	6-8'	-8'	E	C,IV,D-5,7,11,18,23
Arctostaphylos species	Manzanita	B	L,VL	varies	varies	E	C,IV,D - 4,6,7,10,12
Artemisia 'Powis Castle'	NCN	B	L,VL	-3'	6'	E	C,IV - 4,6,12,23
A. stelleriana	Beach Worm Wood	B	L,VL	-3'	-3'	E	C,IV - 4,6,12,19,23
Aspidistra elatior	Cast-Iron Plant	A,B	M,L	-30"	-3'	E	C,IV -3,18
Aucuba japonica	Japanese Aucuba, Gold Dust Plant	A,B-5	M,L	6-15'	6-15'	E	C,IV,D - 18
Baccharis species	Various	B	L,VL	varies	varies	E	C,IV,D-4,5,6,12,21,23
Begonia species	Begonia	A,B	H,M	varies	varies	E	C,IV - 3,8,10,14,18
Berberis thunbergii	Japanese Barberry	B	M,L	4-6'	4-6'	D	C,IV,D - 4
B. thunbergii 'cultivars'		A,B	M,L	varies	varies	D	C,IV,D - 4
Bergenia crassifolia	Winter Blooming Bergenia	A,B	M,L	-20"	-20"	E	C,IV - 3,18,19
Bougainvillea sp.	Bougainvillea	B	L	varies	varies	E/D	C,IV - 3,4,10
Buddleja davidii	Butterfly Bush	B	M,L	-10'	-12'	E/D	C,IV,D - 7,10,16,17,X
Buxus microphylla japonica	Japanese Boxwood	A,B-5	M,L	4-6'	4-6'	E	C,IV,D -16
B.m. koreana	Korean Boxwood	A,B-5	M,L	4-6'	4-6'	E	C,IV,D -16
Caesalpinia gilliesii	Bird of Paradise Bush	A,B	L,VL	-10'	-10'	E/D	C,IV,D - 7,10
C. mexicana	Mexican Bird of Paradise	A,B	L,VL	10-12'	-15'	E/D	C,IV,D - 7,10
C. pulcherrima	Red Bird of Paradise	A,B	L,VL	-10'	-10	E/D	C,IV,D - 7,10
Calliandra californica	Baja Fairy Duster	B	L,VL	-8'	4-12'	E/D	C,IV,D -4,6,7,10,12
C. eriophylla	Fary Duster	B	L,VL	-3'	4-5'	E/D	C,IV,D -4,6,7,10,12
Callistemon citrinus'compacta'	Bottlebrush	B	L,VL	8'	8'	E	C,IV,D-5,7,10,20
C. viminalis "Little John"	NCN	A,B-10	L	5'	8	E	C,IV,D-5,7,10,20
Calycanthus occidentalis	Spice Bush	B	M,L	4-12'	-5'	D	C,IV-12,18
Carissa macrocarpa (grandiflora)	Natal Plum	A,B-10	M,L	7+	7+	E	C,IV - 4,11,16
C. m. 'cultivars'	Natal Plum	A,B-10	M,L	varies	varies	E	C,IV - 4,11,16
Carpenteria californica	Bush Anemone	A,B-10	L,VL	6-8'	6-8'	E	C,IV - 6,7,10,12
Cassia (Senna) artemisioides	Feathery Cassia	A,B-10	L,VL	3-6'	-6'	E	C,IV,D - 10,
Ceanothus species	Wild Lilac	B-30	L,VL	varies	varies	E/D	C,IV,D - 4,6,7,10,12,23
Cercocarpus betuloides	Mountain Mahogany	B-30	L,VL	5-12'	-10'	E	C,IV,D - 4,6,12,23
Choisya ternata	Mexican orange	B	M	6-8'	-8'	E	C,IV - 10,18

SHRUBS – page 2

BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-COMMENTS
Cistus species	Rockrose	A,B-10	L,VL	varies	varies	E	CiIV,D - 4,5,6,10,17,20,X
Clivia miniata	Clivia	A,B	H,M	2'	2'	E	C,IV - 3,10,14,18,19
Colocasia esculenta (caladium)	Taro, Elephant's Ear	A,B	H	-6'	-6'	E/D	C,IV - 3,14,18,19
Comarostaphylis diversifolia	Summer Holly	B	L,VL	6-10'+	6-8'+	E	C,IV,D-6,7,12,18.23
Convolvulus cneorum	Bush Morning Glory	B	L	2-4'	2-4'	E	C,IV,D-6,10
Coprosma petriei (pumila)	NCN	B	M	-3'	8'	E	IV - 1,4,16,20
C. repens	Mirror Plant	B	M	-10'	-6'	E	IV - 1,4,16,20
Cotoneaster species & cultivars	Cotoneaster	B	M,L	varies	varies	E/D	C,IV,D - 4,10,16,X
Cotyledon species	NCN	A,B	L	1-3'	1-3'	E	C,IV - 3,8,14
Crassula species	NCN	A,B	L	1-9'	1-9'	E	C,IV - 3,8,14,X
Cuphea hyssopifolia	False Heather	A,B	M	2'	3'	E	V,IV - 3,7,10,
Cycas revoluta	Sago Palm	A,B	M	8'	10'	E	C,IV,D - 3,8,15,18
Cyrtomium falcatum	Holly Fern	A,B	H,M	2-3'	3-4'	E	C,IV - 15
Dasylirion longissimum	Mexican Grass Tree	A,B-10	L,VL	-10'	8'	E	C,IV,D-15
D. wheeleri	Sotol	A,B-10	L,VL	-6'	-6'	E	C,IV,D-15
Dendromecon harfordii	Island Bush Poppy	B	L,VL	8-20'	10-20'	E	C,IV - 5,10,12,23
Dietes bicolor	Fortnight Lily, African Iris	A,B	M,L	2-3'	2-3'	E	C,IV,D - 4,10,15,19
Dietes iridioides	Fortnight Lily, African Iris	A,B	M,L	3'	3'	E	C,IV,D - 4,10,15,19
Dodonaea viscosa	Hopseed Bush	B	M,L	12-18'	10+	E	C,IV,D - 3,4
D. v. 'Purpurea'	Purple Hopseed Bush	B	M,L	12-18'	10+	E	C,IV,D - 3,4
Elaeagnus pungens & cultivars	Silverberry	B	M,L	6-15'	6-15'	E	C,IV,D - 16
Encelia californica	Coast Sunflower	A,B-10	L,VL	3-5'	3-5'	E/D	C,IV-5,6,10,4,17
E. farinosa	Brittle Bush	B	L,VL	3-5	3-5	E/D	C,IV,D - 4,5,6,10,12,17
Eriogonum giganteum	St. Catherine's Lace	B	L,VL	- 8'	- 8'	E	C,IV - 4,6,10,12,19,20
Escallonia species	Escallonia	A,B-5	M,L	2-15'	2-10'	E	C,IV - 4,10,16
Euonymus japonica & cultivars	Evergreen Euonymus	A,B	M	2-10'	-6'	E	C,IV,D - 4,16
Euphorbia species	Varies	A,B	M,L,VL	varies	varies	E/D	C,IV - 1(varies),3,6,8,10,14,18
Euryops pectinatus	NCN	A,B	M,L	6'	6'	E	C,IV,D - 3,4,6,7,10
Fatsia japonica	Japanese Aralia	A,B	M	5-12'	6-10'	E	C,IV - 15,18
Fouquieria splendens	Ocotillo	A,B	VL	8-25'	8-15'	E	IV,D - 6,10,12
Fremontodendron species & cultivars	Flannel Bush	B	L,VL	5-20'	-15'	E	C,IV,D - 4,6,10,12
Gardenia augusta (jasminoides)	Gardenia	A,B	H	3-6'	3-5'	E	C,IV - 10,18
Garrya elliptica	Coast Silktassel	B	M,L	4-8'	4-8'	E	C,IV,D - 4,5,7,10,12
Grevillea species & cultivars	Grevillea	B	L,VL	varies	varies	E	C,IV,D - 3,4,5,7,8,10
Grewia occidentalis	Lavender Starflower	A,B-10	M	6-10'	6-10'	E	C,IV,D - 4
Hakea suaveolens	Sweet Hakea	B	L	10-20'	-15'	E	C,IV - 4,8
Hebe species & cultivars	Hebe	A,B-10	M	3-6'	3-6'	E	C,IV - 4,5,7,10,16
Helictotrichon sempervirens	Blue Oat Grass	A,B-15	M	2-3'	2-3'	E/D	C,IV,D - 15,19
Hemerocallis hybrids	Daylily	A,B	M,L	1-6'	2-6'	E/D	C,IV,D - 7,10,17,19
Hesperaloe parviflora	Red Yucca	A,B	VL	3-4'	4-6'	E	IV,D - 6,7,15,19
Heuchera Species	Coral Bells	A,B	M,L	6"-2'	2'	E/D	C,IV,D-6,7,8,10,12,15,18,19
Hibiscus rosa - sinensis	Chinese Hibiscus	A,B-5	M	-15'	-12'	E	C,IV - 3,4,7,10,18
Ilex species	Holly	B	M	varies	varies	E	C,IV,D - 7,16,X
Iris species & varities/cultivars	Bearded Iris	A,B	M	-30"	-2'	E	C,IV,D - 10,19,X
I.douglasiana	Douglas Iris	A,B	M,L	-2'	-2'	E	C,IV - 10,12,18,19
Juniperus species	Juniper	B	M,L,VL	varies	varies	E	C,IV,D - 4, 7, 23

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BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-COMMENTS
Justicia brandegeeana	Shrimp Plant	A,B	M	-3'	-4'	E	C,IV,D - 4,7,10
J. californica	Chuparosa	B	L,VL	2-5'	-4'	D	IV,D - 4,6,7,10,12
Keckiella cordifolia	Heart-Leaved Penstemon	B	L,VL	5-6'	8-10'	E/D	C,IV-4,7,12
Kniphofia uvaria	Red-Hot Poker	A,B	L	2-3'	3-4'	E	C,IV,D-3,7,10,19,X
Lantana Camara & hybrids	Lantana	A,B-10	M	varies	varies	E	C,IV,D - 4,7,10,X
Larrea tridentata	Creosote Bush	B	VL	4-8'	4-8'	E	IV,D-6,12,23
Lavandula angustifolia	English Lavender	A,B-10	L	3-4'	3-4'	E	C,IV,D-4,6,7,10,17
L. dentata	French Lavender	A,B-10	L	3'	3'	E	C,IV,D-4,6,7,10,17
L. intermedia	Lavandin	A,B	L	1-2'	2-3'	E	C,V,D-4,6,7,10,17
L. stoechas	Spanish Lavender	A,B-10	L	2-3'	3'	E	C,IV,D-4,6,7,10,17
Lavatera assurgentiflora	California Tree Mallow	B	L,VL	8-12'	8-12'	E	C,IV- 4,5,6,7,12,16,20
L. maritima	Tree Mallow	A,B-10	M,L	8-12'	8-12'	E	C,IV- 4,7,8,10,18
Leonotis leonurus	Lion's Tail	A,B-10	L	3-6'	4-6'	E	C,IV,D-3,7,10,17
Leptospermum scoparium & varities	New Zealand Tea Tree	A,B-15	L,VL	10+	10+	E	C,IV-5,10,16
L. s. varities	NCN	Varies	M-VL	varies	varies	E	C,IV-5,10,16
Leucophyllum candidum	Violet Silverleaf	A,B-10	L,VL	4-5'	4-5'	E	IV,D-4,6,7,10
L. frutescens	Texas Ranger	B	L,VL	6-8'	6-8'	E	IV,D-4,6,7,10
L. laevigatum	Chihuahuan Sage	A,B-5	L,VL	3-4'	4-5'	E	IV,D-4,6,7,10
Ligustrum japonicum	Wax-leaf Privet	A,B-10	M,L	10-12'	10	E	C,IV,D-7,10,15,X
Lirope muscari	Big Blue Lily Turf	A,B	M	18"	2-3'	E	C,IV,D-14,18
Lobelia laxiflora	Mexican Bush Lobelia	A,B-5	M,L	2-3'	4-6'	E	C,IV,D-4,7,10,19,X
Lupinus species	Lupine	B	L,VL	varies	varies	E/D	C,IV,D-4,6,7,10,12,17
Mahonia aquifolium	Oregon Grape	A,B-10	M,L	6-8'	6-8'	E	IV,D-4,6,11,12,18,23
Mahonia a. 'Compacta"	Compact Oregon Grape	A,B	M.L	1-2'	2-3'	E	C,IV-4,7,12,18,23
M. fremontii	Desert Mahonia	B	L	3-12'	4-8'	E	C,IV,D-4,6,10,11,12,23
M. 'Golden Abundance'	NCN	A,B-5	M,L	5-6'	6'	E	IV,D-4,6,10,11,12,18,23
M. lomariifolia	Venetian Blind Mahonia	A,B	M,L	6-10'	6-10'	E	C,IV,D-4,6,7,11,15,18,23
M. nevinii	Nevin Mahonia	B-30	L	3-10'	6-12'	E	C,IV,D-4,6,10,11,12,23
M. pinnata	California Holly Grape	B	M,L	4-5'	4-6'	E	C,IV-4,6,7,10,11,12,18,23
M. repens	Creeping Mahonia	A,B	M,L	2-3'	2-3'	E	C,IV-4,7,12,18,23
Malosma - See Rhus							
Malva species	Mallow	A,B	L	varies	varies	E/D	C,IV,D-6,7,10,13
Melaleuca nesophila	Pink Melaleuca	A,B-10	L,VL	10-20'	10-20	E	C,IV - 4,5,7,10,16
Mimulus species (Diplacus)	Monkey Flower	B	L	1-4'	1-4'	E	C,IV,D-4,6,7,10,12
Muhlenbergia rigens	Deer Grass	A,B-10	L,VL	4'	4'	D	C,IV,D- 12,15,17,19
Myrica californica	Pacific Wax Myrtle	B	M,L	10-15'+	10-15'+	E	C,IV - 4,5,7,12,20,23
Myrsine africana	African Boxwood	A,B-5	M	3-8'	3-8'	E	C,IV,D - 16,18
Myrtus communis 'compacta'	Dwarf Myrtle	A,B-10	M	5-8'	5-8'	E	C,IV,D-16
Nandina domestica	Heavenly Bamboo	A,B	M	6-8'	4-5'	E	C,IV,D-4,15
N.d. 'Compacta'	NCN	A,B	M	4-5'	3-4'	E	C,IV,D-4,15
N. d. 'Harbour Dwarf'	Dwarf Heavenly Bamboo	A,B	M,L	1 1/2 -2'	2-3'	E	C,IV,D-15
Nerium oleander	Oleander	B	M,L	8-20'	10-20'	E	C,IV,D-10,16,X
N.o. 'Petite Salmon'	NCN	A,B-10	M	3-4'	5-7'	E	C,IV-3,10,16
Opuntia species	Prickly Pear, Cholla etc.	A,B	L,VL	varies	varies	E	C,IV,D-8,12,14,23
Pelargonium species	Geranium	A,B	M,L	varies	varies	E	C,IV-3,10,19,X
Penstemon species	Beard Tongue	A,B	L	varies	varies	E/D	C,IV,D-7,10,12,17,19

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BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-COMMENTS
Phlomis fruticosa	Jerusalem Sage	A,B	M,L	3-4'	3-5'	E	C,IV,D-6,7,10,17,19
Phoenix roebelenii	Pygmy Date Palm	A,B	M,L	6-10'	6-10'	E	C,IV - 3,15,18
Phormium tenax	New Zealand Flax	A,B	M	5-9'	6'	E	C,IV,D-4,15,19
P.t 'cultivars'	NCN	A,B	M	varies	varies	E	C,IV,D-4,15,19
Photinia fraseri	Photinia	B	M,L	10-15'	10-20'	E	C,IV,D-4,7,10,16
Pittosporum tobira	Tobira	A,B-10	M,L	6-15'+	8-15'	E	C,IV,D-5,16
P.t.'Variegata'	NCN	A,B-5	M	5-8'	6-8'	E	C,IV,D-5,16
P.t.'Wheeler's Dwarf'	Dwarf Pittosporum	A,B	M	1-3'	2-4'	E	C,IV,D-16
Portulacaria afra	Elephant's Food	A,B	L	5-12'	6-12'	E	C,IV-3,14
Punica granatum 'Nana'	Dwarf Pomegranate	A,B	L	3'	4'	D	C,IV,D-7,11,20
Pyracantha species	Firethorn	B	M	varies	varies	E/D	C,IV,D-4,16,X
Rhamnus california	Coffeeberry	B	M,L	3-15'	4-15'	E/D	C,IV,D-12,21,23
R. crocea	Redberry	B	M,L	2-3'	3'	E	IV-5,12,23
R.c. ilicifolia	Hollyleaf Redberry	B	M,L	3-15'	3-15'	E	IV-5,12,23
Rhaphiolepis indica	India Hawthorn	A,B-5	M,L	4-8'	4-8'	E	C,IV,D-4,5,10
R.i 'cultivars'	NCN	A,B	M,L	varies	varies	E	C,IV,D-5,10
Rhus integrifolia	Lemonade Berry	B-40	L	3-10'+	6-20'	E	C,IV-4,5,12,23
R.(Molosma) laurina	Laurel Sumac	B-40	L	6-15'+	6-15'	E	C,IV-4,5,12,23
R. ovata	Sugar Bush	B-30	L	3-15'	6-15'	E	C,IV,D-4,5,12,23
Ribes aureum	Golden Currant	A,B-5	L	3-6'	3-6'	D	C,IV,D-7,10,12,23
R. malvaceum	Chaparral Currant	A,B-5	L	6-8'	6-8"	D	IV-7,10,12,23
R. sanguineum & cultivars	Red Flowering Currant	A,B-5	M,L	4-12'	4-8'	D	C,IV,D-7,10,12,23
R. speciosum	Fuchsia-Flowering Gooseberry	A,B-10	L	3-6'	3-6'	D	C,IV,D-4,7,10,12,23
R. viburnifolium	Catalina Perfume	A,B-10	L	3'	12'	E	C,IV-7,10,12,23
Romneya coulteri	Matilija Poppy	B	L	-8'	4'	D	C,IV,D-5,6,10,12,17
Rosa species	Rose	A,B	M	varies	varies	E/D	C,IV,D-10,16,17
Rosmarinus officinalis & cultivars	Rosemary	B	M,L	varies	varies	E	C,IV,D- 4, 5, 7
Salvia species - native varieties	Sage	B	L,VL	varies	varies	E/D	C,IV,D-4,7,10,12,17,23
Salvia species - ornamental varieties	Sage	A,B	M,L	varies	varies	E/D	C,IV,D-4,7,10,17,23
S. greggii	Autumn Sage	A,B	M,L	3-4'	3-4'	E	C,IV,D - 4,7,10
S. leucantha	Mexican Bush Sage	A,B	L,VL	3-4'	4-6'	E	C,IV- 7, 10,17
Santolina chamaecyparissus	Lavender Cotton	A,B	L	-24"	-3'	E	C,IV,D - 10
S. rosmarinifolia (virens)	Green Lavender Cotton	A,B	L	-24"	-3'	E	C,IV,D - 10
Simmondsia chinensis	Jojoba	B	L,VL	3-8'+	4-8'	E	C,IV,D-4,6,11,23
Strelitzia nicolai	Giant Bird of Paradise	A,B	M	-30'	-20'	E	C,IV-3,4,10,15,18
S. reginea	Bird of Paradise	A,B	M	5'	4'	E	C,IV-3,4,10,15,18
Tibouchina urvilleana	Princess Flower	A,B-10	M	5-18'	5-10'	E	C,IV -3,4, 6,10
Trichostema lanatum	Wooly Blue Curls	B	L,VL	3-5'	5'	E	C,IV,D-6,7,10,12,17
Tulbaghia violacea	Society Garlic	A,B	M	18'	2'	E/D	C,IV,D-3,10,19
Viburnum species	Viburnum	A,B-10	M	varies	varies	E/D	C,IV,D-3,7,10
Westringia fruticosa	Coast Rosemary	A,B-10	M,L	5-7'	6-12'	E	C,IV,D-4,6,18
Xylosma congestum	Shiny Xylosma	A,B-10	M,L	15'+	15'+	E	C,IV,D-5,16,18
X.c. 'Compacta'	Compact Xylosma	A,B-5	M,L	8-12'	8-12'	E	C,IV,D-5,16,18
Yucca species	Yucca	B	L,VL	varies	varies	E	C,IV,D - 6,10,15
Zantedeschia aethiopica	Calla Lilly	A,B	H,M	2-4'	3'	E/D	C,IV,D - 3,10,14,18,X

Zauschneria californica	California Fuchsia	B	L,VL	1-3'	3-5'	E/D	C,IVD-4,5,7,10,12,13,23

TREES – REVISED 7/2011

BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-COMMENTS
Acacia farnesiana	Sweet Acacia	A,B-15	L	15-20'	15-20'	D	IV,D-10,X
A. greggii	Catclaw Acacia	B	L,VL	15-25'	15-25'	E	IV,D-10,12,21,23
A. salicina	Willow Acacia	A,B-15	L	15-35'	12-25'	E	C,IV,D-10,X
A. smallii	NCN	A,B-15	L,VL	15-20'	15-20'	D	C,IV,D-10,12,21,23
A. stenophylla	Shoestring Acacia	A,B-15	M,L	20-45'	10-20'	E	C,IV,D-10,22,X
Acer macrophyllum	Bigleaf Maple	B	M	30-95'	30-95'	D	C,IV-12,21,23
A. negundo	Box Elder	B	M,L	-60'	-50'	D	C,IV,D-12,23
A. palmatum	Japanese Maple	A,B	M	-20'+	-20'	D	C,IV-6
A. saccharinum	Silver Maple	B-30	M	40-100'	40-100'	D	C,IV,D-22
Aesculus californica	California Buckeye	B	M,L	20+	30'	D	C,IV,D-6,7,10,12,23
Agonis flexuosa	Peppermint Tree	B	M,L	25-35'	25-35'	E	C,IV-3,22
Albizia julibrissin	Silk Tree	B	M	-40'	40'+	D	C,IV,D-7,10,22,X
Alnus cordata	Italian Alder	B	M	40'	25'	D	C,IV,D-22
A. rhombifolia	White Alder	B	H,M	50-90'	40'	D	IV-12,21,23
Arbutus 'Marina'	NCN	A,B-15	M.L	-40'	-40'	E	C,IV,D-5,7,10,11,23
A. unedo	Strawberry Tree	A,B-10	M,L	12-35'	20-35'	E	C,IV,D-5,7,10,11,23
Archontophoenix cunninghamiana	King Palm	A,B	M	50'	10-15'	E	C,IV-3,10,15
Bauhinia variegata	Purple Orchid Tree	B	M	20-35'	35'	E/D	C,IV-4,10
Betula pendula	European White Birch	A,B-10	M	30-40'	30'	D	C,IV,D-6,22
Brachychiton acerifolius	Flame Tree	B	L	60'	45-50'	D	C,IV,D-10,22
B. populneus	Kurrajong Bottle Tree	B	L	30-50'	30'	E	C,IV,D-10,22
Brahea armata	Blue Hesper Palm	A,B-10	L,VL	40'	10'	E	C,IV,D-6,10,15
B. edulis	Guadalupe Palm	A,B	L,VL	30'	10'	E	C,IV,D-6,15
Butia capitata	Pindo Palm	A,B-10	M,L	10-20'	10-15	E	C,IV,D-10,11,15
Callistemon citrinus	Lemon Bottlebrush	B	M,L	-25'	-15'	E	C,IV,D-4,7,10
C. viminalis	Weeping Bottlebrush	A,B-10	M,L	20-30'	-15'	E	C,IV-4,7,10,X
Calocedrus decurrens	Incense Cedar	B	L,VL	75+	30+	E	IV,D-6,12
Calodendrum capense	Cape Chestnut	B	M	30'	25-40'	D	C,IV-7,10
Carya illinoinensis	Pecan	B	M,L	70'	70'	D	C,IV,D-6,11
Cedrus deodara	Deodar Cedar	B-30	M,L	60-80'	40+	E	C,IV,D-6
Ceratonia siliqua	Carob	B-30	M,L	30-40'	40+	E	C,IV,D-6
Cercidium floridum	Blue Palo Verde	A,B	L,VL	30'	30'	D	IV,D-6,10,12,21,23
C. microphyllum	Littleleaf Palo Verde	A,B	L,VL	25'	25'	D	IV,D-6,7,10,12,21,23
Cercis occidentalis	Western Redbud	A,B-10	M,L	20'	20'	D	C,IV,D-7,10,12,23
Chamaerops humilis	Mediterranean Fan Palm	A,B	M	20'	20'	E	C,IV,D-15
Chilopsis linearis	Desert Willow	A,B-15	L	-35'	-35'	D	IV,D-6,7,10,12,23
Chionanthus retusus	Chinese Fringe Tree	A,B	M	20'	20'	D	C,IV-10
Chitalpa X tashkentensis	Chitalpa	A,B	M,L	20-30'	20-30'	D	C,IV,D-7,10,12
Chorisia speciosa	Floss Silk Tree	B	M	30-60'	30-40'	D	C,IV,D-10,22
Cinnamomum camphora	Camphor Tree	B-30	M,L	50'+	60'+	E	C,IV,D-22
Citrus species	Citrus	A,B	M	varies	varies	E	C,IV,D-3,6,10,11
Cocculus laurifolius	Laurel Leaf Snail Seed	B	M	25'	30'+	E	C,IV,D-4
Cordyline australis	Giant Dracaena	A,B	M	30'	15'	E	C,IV,D-15,X
Cupressus macrocarpa	Monterey Cypress	B-30	M	40'+	40'	E	C-6,12,23,X
Cyathea cooperi	Australian Tree Fern	A,B	M	20'	12'	E	C,IV-3,15,18
Dicksonia antarctica	Tazmanian Tree Fern	A,B	M	15'	12'	E	C,IV-15,18
Dracaena draco	Dragon Tree	A,B	M,L	20'	20'	E	C,IV-3,10,14,15
Eriobotrya deflexa	Bronze Loquat	A,B-10	M,L	20'	20'	E	C,IV,D-10
Erythrina species	Coral Tree	B	M,L	varies	varies	D	C,IV,D-3,7,8

Eucalyptus citriodora	Lemon-scented Gum	B	M,L	75-100'	-40'	E	C,IV,D-1,7,22

TREES – page 2

BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-
E. maculata	Spotted Gum	B-30	M,L	60-80'	-40'	E	C,IV,D-1,7,22
E. nicholii	Willow Peppermint	B-30	M,L	-40'	-30'	E	C,IV,D-1,7,22
E. sideroxylon	Red Ironbark	B	M'L	35-80'	-35'	E	C,IV,D-1,7,10
E. torquata	Coral Gum	A,B-15	M,L	-25'	-20'	E	C,IV,D-1,6,7,10,20
Feijoa sellowiana	Pineapple Guava	A,B	M,L	18-25'	-25'	E	C,IV,D-3,7,8,10,11,16
Ficus species	Fig	B-	M,L	varies	varies	E,D	C,IV,D-3,*
Fraxinus augustifolia	Raywood Ash	B	M	25+35'	30'	D	C,IV,D-22
F. dipetala	Foothill Ash	B	L,VL	18-20'	20-30'	D	C,IV,D-12,21,22,23
F. latifolia	Oregon Ash	B	M	40-80'	40-60'	D	C,IV,D-12,22,23
F. velutina	Arizona Ash	B	M,L	20-50'	30-50'	D	C,IV,D-22,23
F.v. Coriacea	Montebello Ash	B	M,L	20-40'	20-40'	D	C,IV,D-12,22,23
Geijera parviflora	Australian Willow	A,B-15	M,L	25-30'	20-30'	E	C,IV,D-6
Ginkgo biloba	Maidenhair Tree	A,B-15	M,L	35-80'	30-60'	D	C,IV,D-6,22
Gleditsia triacanthos	Honey Locust	A,B-15	M,L	35-70'	-30'	D	C,IV,D-6,22,X
Grevillea robusta	Silk Oak	B	M	60'+	30'+	E	C,IV,D-3,7,10
Heteromeles arbutifolia	Toyon	A,B-15	L,VL	15-30'	15-30'	E	C,IV,D-5,7,10,12,23
Hymenosporum flavum	Sweetshade Tree	A,B	M,L	20-40'	15-20'	E	C,IV-10
Jacaranda mimosifolia	Jacaranda	B	M,L	25-40'	-30'	D	C,IV,D-10,22
Juglans californica	Southern California Black Walnut	B	L	20-35'	30-45'	D	C,IV,-5,6,12,23
Koelreuteria bipinnata	Chinese Flame Tree	B	M	20-40'	-45'	D	C,IV,D-6,22
K. paniculata	Golden Rain Tree	B	M,L	20-35'	-40'	D	C,IV,D-20,22,X
Lagerstroemia indica	Crape Myrtle	A,B	M,L	-30	-20	D	IV,D-10,22
Laurus nobilis	Sweet Bay	B	M	20-40'	20-40	E	C,IV-3,16
Leptospermum laevigatum	Australian Tea Tree	A,B-15	L,VL	10-30	10-30'	E	C,IV-5,10,16
Liquidambar formosana	Chinese Sweet Gum	A,B-15	M	40-60'	25'	D	C,IV,D-7
L. styraciflua	American Sweet Gum	A,B-15	M	60'	-25'	D	C,IV,D-7
Liriodendron tulipfera	Tulip Tree	B	M	60-80'	40'	D	C,IV,D-22
Lithocarpus densiflorus	Tanbark Oak	B	L	-60'	-40'	E	C,IV-6,12,23
Lophostemon(Tristania) confertus	Brisbane Box	A,B-15	L,VL	30-60'	-40'	E	C,IV-22
Lyonothamnus floribundus	Catalina Ironwood	A,B-15	M	20-35	15'	E	C,!V-6,10,12,15,23
Magnolia grandiflora	Southern Magnolia	B	M	60-80'	40-60'	E	C,IV,D-10,22
M. X soulangeana	Saucer Magnolia	A,B	M	15-25'	25'+	D	C,IV,D-10
Maytenus boaria	Mayten Tree	A,B-10	M,L	30-50'	30'	E	C,IV-6,22,X
Melaleuca quinquenervia	Cajeput Tree	A,B-15	M,L	20-40'	15-25'	E	C,IV,D-10
Metasequoia glyptostroboides	Dawn Redwood	A,B-15	H,M	-80'	-40'	D	C,IV-22
Metrosideros excelsa	New Zealand Christmas Tree	A,B-10	L,VL	-30'	-30'	E	C,IV-5,6,7,10
Morus alba	White Mulberry	B	M,L	20-60'	30-50'	D	C,IV,D-11,16
Olea europaea	Olive - Fruitless varieties only	A,B-15	L,VI	-35'	20-30'	E	C,IV,D-11,16,20,X
Parkinsonia aculeata	Jerusalem Thorn	A,B-10	L,VL	15-30'	15-30'	D	C,IV,D-3,6,7,10,22,X
Phoenix dactylifera	Date Palm	B	M,L	80'	30'	E	C,IV,D-7,11,15,X
Pinus species	Pine	B-75	L,VL	varies	varies	E	C,IV,D-15,23
Pistacia chinensis	Chinese Pistache	B	M,L	-60'	-50'	D	C,IV,D-22,X
Pittosporum phillyreoides	Willow Pittosporum	A,B	L	15-25'	10-15'	E	C,IV,D-10
P. rhombifolium	Queensland Pittosporum	A,B	M	15-35'	-25'	E	C,IV,D-22
Platanus racemosa	California Sycamore	B	L	50-100'	50-100'	D	C,IV,D-12,21,22,23
Podocarpus gracilior	Fern Pine	B	M	-60'	-60'	E	C,IV,D-16,22
P. macrophyllus	Yew Pine	B	M	-50'	-45'	E	C,IV,D-16,22
Populus fremontii	Fremont Cottonwood	B	M	40-60'	40-60'	D	C,IV,V-12,21,22,23
Prosopis chilensis	Chilean Mesquite	B	L	30-50'	30-50'	E/D	C,IV,D-10,23

P. glandulosa	Honey Mesquite	A,B-15	L,VL	25-30'	25-30'	D	C,IV,D-5,7,21,22,23

TREES – page 3

BOTANICAL NAME	COMMON NAME	ZONE	WATER NEEDS	HEIGHT	SPREAD	E/D	GEOGRAPHICAL AREA-
Prunus cerasifera 'Atropurpurea'	Purple-leaf Plum	A,B-10	M,L	25'	25'	D	C,IV,D-10,11,22
P. ilicifolia	Hollyleaf Cherry	A,B-15	L,VL	15-30'	15-30'	E	C,IV,D-7,11,12,16,23
Punica granatum	Pomegranate	A,B-10	L	12-18'	-20'	D	C,IV,D-7,11,20
Pyrus calleryana & cultivars	Ornamental Pear	A,B-15	M	varies	varies	D	C,IV,D-10
P. Kawakamii	Evergreen Pear	A,B-10	M	15-30'	15-30'	E/D	C,IV,D-10
Quercus agrifolia	Coast Live Oak	B-30	L,VL	30-70'	70'+	E	C,IV,D-6,12,23
Q. chrysolepis	Canyon Live Oak	B-30	M,L	30-60'	20-60'	E	C,IV-6,12,36
Q. douglasii	Blue Oak	B-30	M	50'	50+	D	C,IV,D-6,12,23
Q. engelmannii	Engelmann Oak	B-30	I	60'	60+	E	IV,D-6,12,33,23
Q. ilex	Holly Oak	B-30	M	40-70'	40-70'	E	C,IV,D-6,23
Q. kelloggii	California Black Oak	B	M	30-80'	-60'	D	IV-6,12,23
Q. lobata	Valley Oak	B-30	L,VL	70'+	70'+	D	C,IV-6,12,23
Q. palustris	Pin Oak	B-30	M	50-80'	5-70'	D	C,IV,D-6,22,23
Q. rubra	Red Oak	B-30	M	60-75'	50'	D	C,IV,D-6,23
Q. suber	Cork Oak	B-30	M	70-100'	-100'	E	C,IV,D-6,23
Q. virginiana	Southern Live Oak	B-30	M,L	60'	100'	E/D	C,IV,D-22
Q. wislizenii	Interior Live Oak	B	M,L	30-75'	75'+	E	IV,D-6,12,23
Rhus lancea	African Sumac	A,B-15	L	20-30'	20-30'	E	C,IV,D-20,22
Robinia ambigua	Locust	B	M,L	30-50'	-30'	D	IV,D-1,7,10,22
Sapium sebiferum	Chinese Tallow Tree	B	M	-35'	-35'	D	IV,D-22,X
Schefflera actinophylla	Queensland Unbrella Tree	A,B	H,M	20'+	20'+	E	C-3,8,18
S. pueckleri	Tupidanthus	A,B	H,M	20'+	20'+	E	C-3,8,18
Sophora japonica	Japanese Pagoda Tree	B	M	30-50'	30-50'	D	C,IV,D-22
Stenocarpus sinuatus	Firewheel Tree	A,B-10	M	30'	15'+	E	C,IV-6,10,22
Syagrus romanzoffianum	Queen Palm	A,B	M	50'	-20'	E	C,IV-15
Tabebuia chrysotricha	Golden Trumpet Tree	A,B-15	M	25-30'	-30'	E	C,IV-6,10,22
T. impetiginosa	Pink Trumpet Tree	A,B-15	M	35'	-30'	E	C,IV-6,10,22
Taxodium mucronatum	Montezuma Cypress	B	H-L	75'	35'	E/D	C,IV-22
Tipuana tipu	Tipu Tree	B	M	-50'	-50'	D	C,IV-10,22
Trachycarpus fortunei	Windmill Palm	A,B	M	-30'	-6'	E	C,IV,D-15
Umbellularia californica	California Bay	B	L,VL	30-75'	30-75'	E	C,IV,D-5,12,23
Washingtonia filifera	California Fan Palm	B-30	M-VL	60'	20'	E	C,IV,D-3,7,10,12,15,21,X
Zelkova serrata	Sawleaf Zelkova	B	M	60'	60'	D	C,IV,D-22
Ziziphus jujuba	Chinese Jujube	A,B-15	M,L	20-30'	20-30'	D	C,IV,D-11,20,22

APPENDIX 5.2-1

CalEEMod Output – Proposed Project

Los Valles AQ

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.93	Acre	7.93	0.00	0
Health Club	8.50	1000sqft	0.20	8,500.00	0
User Defined Recreational	223.15	User Defined Unit	223.15	0.00	0
Single Family Housing	497.00	Dwelling Unit	161.36	894,600.00	1421

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	501.88	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Including 33% RPS

Land Use - Based on Project Description "User Defined Recreational" is same as on-site "Open Spaces".

Construction Phase - grading 10/1/2015 to 6/30/17 trenching 7/1/17 to 1/1/18 building 11/1/17 to 1/31/20 paving 11/1/17 to 6/30/20 coatings 2/1/18 to 1/31/2021

Off-road Equipment - Fleet provided by client.

Off-road Equipment -

Off-road Equipment - Fleet provided by client.

Off-road Equipment -

Off-road Equipment - Fleet provided by client.

Off-road Equipment - Fleet provided by client.

Trips and VMT - Assume haul trip length during grading = 0.25 miles to reflect cut and fill balance on site. 10 haul trips during paving.

Grading - Assume approximately 300 acres graded, 7,799,517 cy of cut/fill balanced on site.

Architectural Coating -

Vehicle Trips - Based on Traffic Study - trips associated with single family homes only

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Woodstoves - Per SCAQMD rule 445, wood burning fire places are not allowed

Landscape Equipment -

Energy Use - Title 24 2008

Water And Wastewater - Based on Water Supply Assessment

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Assume watering 3x per day per SCAQMD guidelines.

Energy Mitigation - Exceed Title 24 2008 by 25% to meet Title 24 2013 requirements
75% Reduction for energy efficient lighting

Waste Mitigation - 75% waste diversion based on 2020 State goal.

Area Mitigation - no hearths

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	695.00
tblConstructionPhase	NumDays	620.00	457.00
tblConstructionPhase	NumDays	6,200.00	588.00
tblConstructionPhase	NumDays	440.00	782.00
tblConstructionPhase	PhaseEndDate	9/30/2022	6/30/2020
tblConstructionPhase	PhaseEndDate	4/2/2020	1/31/2020
tblConstructionPhase	PhaseEndDate	6/29/2023	1/31/2021
tblConstructionPhase	PhaseStartDate	2/1/2020	11/1/2017
tblConstructionPhase	PhaseStartDate	1/2/2018	11/1/2017
tblConstructionPhase	PhaseStartDate	7/1/2020	2/1/2018
tblGrading	AcresOfGrading	5,484.00	300.00
tblGrading	MaterialExported	0.00	3,899,759.00
tblGrading	MaterialImported	0.00	3,899,759.00
tblLandUse	LandUseSquareFeet	345,430.80	0.00
tblLandUse	LotAcreage	0.00	223.15
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	12.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	501.88
tblProjectCharacteristics	OperationalYear	2014	2024
tblSequestration	NumberOfNewTrees	0.00	6,320.00
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	1.59	0.00

tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	41.8843	375.9479	485.6803	0.3137	41.9481	14.1237	56.0718	21.0417	12.9917	34.0334						32,339.4314
2016	38.5891	355.8954	454.9279	0.3130	40.1243	13.3222	53.4464	20.5940	12.2551	32.8491						31,961.6073
2017	35.8245	333.0833	429.0488	0.3127	40.7465	12.3862	53.1327	20.7468	11.3946	32.1413						31,444.4852
2018	14.9992	58.0993	60.4897	0.1083	2.8917	3.3808	6.0154	0.7735	3.1705	3.8758						10,053.2925
2019	14.3774	42.4195	50.1171	0.0971	2.8918	2.3051	5.1968	0.7736	2.1571	2.9307						8,747.2206
2020	13.9535	38.7014	48.8257	0.0971	2.8918	2.0392	4.9310	0.7736	1.9078	2.6814						8,534.5640
2021	9.5243	1.6583	3.4706	8.1900e-003	0.4024	0.0975	0.4999	0.1067	0.0973	0.2040						654.7116
Total	**169.1523**	**1,205.8051**	**1,532.5600**	**1.2500**	**131.8965**	**47.6546**	**179.2940**	**64.8098**	**43.9741**	**108.7157**						**123,735.3127**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	41.8843	375.9479	485.6803	0.3137	18.3052	14.1237	32.4290	8.7021	12.9917	21.6938						32,339.4314
2016	38.5891	355.8954	454.9279	0.3130	16.4814	13.3222	29.8036	8.2544	12.2551	20.5096						31,961.6073
2017	35.8245	333.0833	429.0487	0.3127	17.1036	12.3862	29.4898	8.4072	11.3946	19.8018						31,444.4852
2018	14.9992	58.0993	60.4897	0.1083	2.8917	3.3808	6.0154	0.7735	3.1705	3.8758						10,053.2925
2019	14.3774	42.4195	50.1171	0.0971	2.8918	2.3051	5.1968	0.7736	2.1571	2.9307						8,747.2206
2020	13.9535	38.7014	48.8257	0.0971	2.8918	2.0392	4.9310	0.7736	1.9078	2.6814						8,534.5640
2021	9.5243	1.6583	3.4706	8.1900e-003	0.4024	0.0975	0.4999	0.1067	0.0973	0.2040						654.7116
Total	**169.1523**	**1,205.8051**	**1,532.5600**	**1.2500**	**60.9679**	**47.6546**	**108.3654**	**27.7911**	**43.9741**	**71.6970**						**123,735.3127**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**53.78**	**0.00**	**39.56**	**57.12**	**0.00**	**34.05**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	151.3189	3.7767	290.8233	0.3996		38.1923	38.1923		38.1863	38.1863						14,066.2302
Energy	0.4423	3.7825	1.6274	0.0241		0.3056	0.3056		0.3056	0.3056						4,854.8148
Mobile	12.8153	31.1703	146.1641	0.5641	36.3929	0.7448	37.1377	9.7353	0.6872	10.4225						41,979.7103
Total	**164.5765**	**38.7295**	**438.6148**	**0.9878**	**36.3929**	**39.2426**	**75.6356**	**9.7353**	**39.1791**	**48.9144**						**60,900.7552**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	21.0870	0.4725	41.0103	2.1700e-003		0.2273	0.2273		0.2273	0.2273						75.3734
Energy	0.3535	3.0232	1.3009	0.0193		0.2443	0.2443		0.2443	0.2443						3,880.1651
Mobile	12.8153	31.1703	146.1641	0.5641	36.3929	0.7448	37.1377	9.7353	0.6872	10.4225						41,979.7103
Total	**34.2558**	**34.6659**	**188.4753**	**0.5855**	**36.3929**	**1.2163**	**37.6092**	**9.7353**	**1.1587**	**10.8940**						**45,935.2488**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**79.19**	**10.49**	**57.03**	**40.72**	**0.00**	**96.90**	**50.28**	**0.00**	**97.04**	**77.73**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**24.57**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2015	6/30/2017	5	457	
2	Trenching	Trenching	7/1/2017	1/1/2018	5	131	
3	Building	Building Construction	11/1/2017	1/31/2020	5	588	
4	Paving	Paving	11/1/2017	6/30/2020	5	695	
5	Coatings	Architectural Coating	2/1/2018	1/31/2021	5	782	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 300

Acres of Paving: 0

Residential Indoor: 1,811,565; Residential Outdoor: 603,855; Non-Residential Indoor: 12,750; Non-Residential Outdoor: 4,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	6	8.00	255	0.40
Grading	Scrapers	12	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coatings	Air Compressors	1	6.00	78	0.48
Building	Cranes	1	7.00	226	0.29
Building	Forklifts	3	8.00	89	0.20
Trenching	Generator Sets	1	8.00	84	0.74
Trenching	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Trenching	Welders	1	8.00	46	0.45
Building	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Building	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	21	53.00	0.00	974,940.00	14.70	6.90	0.25	LD_Mix	HDT_Mix	HHDT
Coatings	1	36.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building	9	182.00	55.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					38.7588	0.0000	38.7588	20.2288	0.0000	20.2288						0.0000
Off-Road	26.0938	321.2386	213.0687	0.2436		13.8189	13.8189		12.7134	12.7134						25,749.5061
Total	**26.0938**	**321.2386**	**213.0687**	**0.2436**	**38.7588**	**13.8189**	**52.5777**	**20.2288**	**12.7134**	**32.9422**						**25,749.5061**

3.2 Grading - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	15.5291	54.3808	268.5591	0.0623	2.5969	0.2989	2.8958	0.6557	0.2729	0.9286						5,915.2643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2614	0.3286	4.0525	7.7100e-003	0.5924	5.9200e-003	0.5983	0.1571	5.4200e-003	0.1625						674.6610
Total	**15.7905**	**54.7094**	**272.6116**	**0.0700**	**3.1893**	**0.3048**	**3.4941**	**0.8129**	**0.2783**	**1.0911**						**6,589.9253**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.1159	0.0000	15.1159	7.8892	0.0000	7.8892						0.0000
Off-Road	26.0938	321.2386	213.0687	0.2436		13.8189	13.8189		12.7134	12.7134						25,749.5060
Total	**26.0938**	**321.2386**	**213.0687**	**0.2436**	**15.1159**	**13.8189**	**28.9349**	**7.8892**	**12.7134**	**20.6026**						**25,749.5060**

3.2 Grading - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	15.5291	54.3808	268.5591	0.0623	2.5969	0.2989	2.8958	0.6557	0.2729	0.9286						5,915.2643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2614	0.3286	4.0525	7.7100e-003	0.5924	5.9200e-003	0.5983	0.1571	5.4200e-003	0.1625						674.6610
Total	**15.7905**	**54.7094**	**272.6116**	**0.0700**	**3.1893**	**0.3048**	**3.4941**	**0.8129**	**0.2783**	**1.0911**						**6,589.9253**

3.2 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					38.7588	0.0000	38.7588	20.2288	0.0000	20.2288						0.0000
Off-Road	25.0885	305.3133	203.4205	0.2435		13.1023	13.1023		12.0541	12.0541						25,467.8778
Total	**25.0885**	**305.3133**	**203.4205**	**0.2435**	**38.7588**	**13.1023**	**51.8611**	**20.2288**	**12.0541**	**32.2829**						**25,467.8778**

3.2 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	13.2646	50.2851	247.8308	0.0618	0.7731	0.2143	0.9873	0.2081	0.1959	0.4040						5,841.6036
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2361	0.2971	3.6766	7.7100e-003	0.5924	5.6000e-003	0.5980	0.1571	5.1500e-003	0.1623						652.1259
Total	**13.5006**	**50.5822**	**251.5074**	**0.0695**	**1.3655**	**0.2199**	**1.5854**	**0.3652**	**0.2010**	**0.5662**						**6,493.7295**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.1159	0.0000	15.1159	7.8892	0.0000	7.8892						0.0000
Off-Road	25.0885	305.3133	203.4205	0.2435		13.1023	13.1023		12.0541	12.0541						25,467.8778
Total	**25.0885**	**305.3133**	**203.4205**	**0.2435**	**15.1159**	**13.1023**	**28.2182**	**7.8892**	**12.0541**	**19.9433**						**25,467.8778**

3.2 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	13.2646	50.2851	247.8308	0.0618	0.7731	0.2143	0.9873	0.2081	0.1959	0.4040						5,841.6036
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2361	0.2971	3.6766	7.7100e-003	0.5924	5.6000e-003	0.5980	0.1571	5.1500e-003	0.1623						652.1259
Total	**13.5006**	**50.5822**	**251.5074**	**0.0695**	**1.3655**	**0.2199**	**1.5854**	**0.3652**	**0.2010**	**0.5662**						**6,493.7295**

3.2 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					38.7588	0.0000	38.7588	20.2288	0.0000	20.2288						0.0000
Off-Road	23.7270	285.0799	190.2316	0.2435		12.1906	12.1906		11.2153	11.2153						25,078.4090
Total	**23.7270**	**285.0799**	**190.2316**	**0.2435**	**38.7588**	**12.1906**	**50.9493**	**20.2288**	**11.2153**	**31.4441**						**25,078.4090**

3.2 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	11.8854	47.7347	235.4860	0.0615	1.3953	0.1902	1.5855	0.3608	0.1743	0.5351						5,738.3835
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2121	0.2687	3.3311	7.7000e-003	0.5924	5.3700e-003	0.5978	0.1571	4.9500e-003	0.1621						627.6928
Total	**12.0975**	**48.0034**	**238.8171**	**0.0692**	**1.9877**	**0.1956**	**2.1833**	**0.5179**	**0.1793**	**0.6972**						**6,366.0763**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.1159	0.0000	15.1159	7.8892	0.0000	7.8892						0.0000
Off-Road	23.7270	285.0799	190.2316	0.2435		12.1906	12.1906		11.2153	11.2153						25,078.4089
Total	**23.7270**	**285.0799**	**190.2316**	**0.2435**	**15.1159**	**12.1906**	**27.3065**	**7.8892**	**11.2153**	**19.1046**						**25,078.4089**

3.2 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	11.8854	47.7347	235.4860	0.0615	1.3953	0.1902	1.5855	0.3608	0.1743	0.5351						5,738.3835
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2121	0.2687	3.3311	7.7000e-003	0.5924	5.3700e-003	0.5978	0.1571	4.9500e-003	0.1621						627.6928
Total	**12.0975**	**48.0034**	**238.8171**	**0.0692**	**1.9877**	**0.1956**	**2.1833**	**0.5179**	**0.1793**	**0.6972**						**6,366.0763**

3.3 Trenching - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9026	14.1951	11.9700	0.0173		1.0291	1.0291		0.9810	0.9810						1,673.3354
Total	**1.9026**	**14.1951**	**11.9700**	**0.0173**		**1.0291**	**1.0291**		**0.9810**	**0.9810**						**1,673.3354**

3.3 Trenching - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398						153.9624
Total	**0.0520**	**0.0659**	**0.8171**	**1.8900e-003**	**0.1453**	**1.3200e-003**	**0.1466**	**0.0385**	**1.2100e-003**	**0.0398**						**153.9624**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9026	14.1951	11.9700	0.0173		1.0291	1.0291		0.9810	0.9810						1,673.3354
Total	**1.9026**	**14.1951**	**11.9700**	**0.0173**		**1.0291**	**1.0291**		**0.9810**	**0.9810**						**1,673.3354**

3.3 Trenching - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398						153.9624
Total	**0.0520**	**0.0659**	**0.8171**	**1.8900e-003**	**0.1453**	**1.3200e-003**	**0.1466**	**0.0385**	**1.2100e-003**	**0.0398**						**153.9624**

3.3 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6457	12.6984	11.7401	0.0173		0.8646	0.8646		0.8255	0.8255						1,658.6964
Total	**1.6457**	**12.6984**	**11.7401**	**0.0173**		**0.8646**	**0.8646**		**0.8255**	**0.8255**						**1,658.6964**

3.3 Trenching - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0468	0.0598	0.7424	1.8900e-003	0.1453	1.2700e-003	0.1466	0.0385	1.1800e-003	0.0397						148.3225
Total	**0.0468**	**0.0598**	**0.7424**	**1.8900e-003**	**0.1453**	**1.2700e-003**	**0.1466**	**0.0385**	**1.1800e-003**	**0.0397**						**148.3225**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6457	12.6984	11.7401	0.0173		0.8646	0.8646		0.8255	0.8255						1,658.6964
Total	**1.6457**	**12.6984**	**11.7401**	**0.0173**		**0.8646**	**0.8646**		**0.8255**	**0.8255**						**1,658.6964**

3.3 Trenching - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0468	0.0598	0.7424	1.8900e-003	0.1453	1.2700e-003	0.1466	0.0385	1.1800e-003	0.0397						148.3225
Total	**0.0468**	**0.0598**	**0.7424**	**1.8900e-003**	**0.1453**	**1.2700e-003**	**0.1466**	**0.0385**	**1.1800e-003**	**0.0397**						**148.3225**

3.4 Building - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730						2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**						**2,653.4490**

3.4 Building - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.4237	4.3876	5.2499	0.0121	0.3432	0.0670	0.4102	0.0977	0.0617	0.1593						1,192.0523
Worker	0.7285	0.9227	11.4390	0.0265	2.0343	0.0184	2.0528	0.5395	0.0170	0.5565						2,155.4734
Total	**1.1522**	**5.3103**	**16.6889**	**0.0385**	**2.3775**	**0.0855**	**2.4629**	**0.6372**	**0.0786**	**0.7158**						**3,347.5257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730						2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**						**2,653.4490**

3.4 Building - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.4237	4.3876	5.2499	0.0121	0.3432	0.0670	0.4102	0.0977	0.0617	0.1593						1,192.0523
Worker	0.7285	0.9227	11.4390	0.0265	2.0343	0.0184	2.0528	0.5395	0.0170	0.5565						2,155.4734
Total	**1.1522**	**5.3103**	**16.6889**	**0.0385**	**2.3775**	**0.0855**	**2.4629**	**0.6372**	**0.0786**	**0.7158**						**3,347.5257**

3.4 Building - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048						2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**						**2,623.3517**

3.4 Building - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3992	4.0340	5.0149	0.0121	0.3432	0.0632	0.4063	0.0977	0.0581	0.1558						1,172.3654
Worker	0.6558	0.8375	10.3941	0.0264	2.0343	0.0179	2.0522	0.5395	0.0165	0.5560						2,076.5143
Total	**1.0550**	**4.8715**	**15.4090**	**0.0385**	**2.3775**	**0.0810**	**2.4585**	**0.6372**	**0.0746**	**0.7118**						**3,248.8797**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048						2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**						**2,623.3517**

3.4 Building - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3992	4.0340	5.0149	0.0121	0.3432	0.0632	0.4063	0.0977	0.0581	0.1558						1,172.3654
Worker	0.6558	0.8375	10.3941	0.0264	2.0343	0.0179	2.0522	0.5395	0.0165	0.5560						2,076.5143
Total	**1.0550**	**4.8715**	**15.4090**	**0.0385**	**2.3775**	**0.0810**	**2.4585**	**0.6372**	**0.0746**	**0.7118**						**3,248.8797**

3.4 Building - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083						2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**						**2,593.9479**

3.4 Building - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3789	3.7219	4.8332	0.0120	0.3433	0.0600	0.4033	0.0977	0.0552	0.1529						1,148.3218
Worker	0.6026	0.7679	9.5447	0.0263	2.0343	0.0174	2.0517	0.5395	0.0161	0.5557						1,995.0981
Total	**0.9815**	**4.4897**	**14.3779**	**0.0383**	**2.3776**	**0.0774**	**2.4550**	**0.6372**	**0.0714**	**0.7086**						**3,143.4200**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083						2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**						**2,593.9479**

3.4 Building - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3789	3.7219	4.8332	0.0120	0.3433	0.0600	0.4033	0.0977	0.0552	0.1529						1,148.3218
Worker	0.6026	0.7679	9.5447	0.0263	2.0343	0.0174	2.0517	0.5395	0.0161	0.5557						1,995.0981
Total	**0.9815**	**4.4897**	**14.3779**	**0.0383**	**2.3776**	**0.0774**	**2.4550**	**0.6372**	**0.0714**	**0.7086**						**3,143.4200**

3.4 Building - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465						2,555.4880
Total	**2.1113**	**19.0839**	**16.8084**	**0.0268**		**1.1128**	**1.1128**		**1.0465**	**1.0465**						**2,555.4880**

3.4 Building - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3624	3.2572	4.6889	0.0120	0.3433	0.0548	0.3982	0.0977	0.0505	0.1482						1,122.7486
Worker	0.5651	0.7119	8.8961	0.0263	2.0343	0.0172	2.0516	0.5395	0.0160	0.5555						1,914.9825
Total	**0.9275**	**3.9692**	**13.5850**	**0.0383**	**2.3776**	**0.0721**	**2.4497**	**0.6372**	**0.0664**	**0.7037**						**3,037.7312**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465						2,555.4880
Total	**2.1113**	**19.0839**	**16.8084**	**0.0268**		**1.1128**	**1.1128**		**1.0465**	**1.0465**						**2,555.4880**

3.4 Building - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3624	3.2572	4.6889	0.0120	0.3433	0.0548	0.3982	0.0977	0.0505	0.1482						1,122.7486
Worker	0.5651	0.7119	8.8961	0.0263	2.0343	0.0172	2.0516	0.5395	0.0160	0.5555						1,914.9825
Total	**0.9275**	**3.9692**	**13.5850**	**0.0383**	**2.3776**	**0.0721**	**2.4497**	**0.6372**	**0.0664**	**0.7037**						**3,037.7312**

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473						2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.9074**	**20.2964**	**14.7270**	**0.0223**		**1.1384**	**1.1384**		**1.0473**	**1.0473**						**2,295.7360**

3.5 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0400	0.0507	0.6285	1.4500e-003	0.1118	1.0100e-003	0.1128	0.0296	9.3000e-004	0.0306						118.4326
Total	**0.0400**	**0.0507**	**0.6285**	**1.4500e-003**	**0.1118**	**1.0100e-003**	**0.1128**	**0.0296**	**9.3000e-004**	**0.0306**						**118.4326**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473						2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.9074**	**20.2964**	**14.7270**	**0.0223**		**1.1384**	**1.1384**		**1.0473**	**1.0473**						**2,295.7360**

3.5 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0400	0.0507	0.6285	1.4500e-003	0.1118	1.0100e-003	0.1128	0.0296	9.3000e-004	0.0306						118.4326
Total	**0.0400**	**0.0507**	**0.6285**	**1.4500e-003**	**0.1118**	**1.0100e-003**	**0.1128**	**0.0296**	**9.3000e-004**	**0.0306**						**118.4326**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635						2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.6114**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**						**2,259.9481**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.1118	9.8000e-004	0.1128	0.0296	9.1000e-004	0.0306						114.0942
Total	**0.0360**	**0.0460**	**0.5711**	**1.4500e-003**	**0.1118**	**9.8000e-004**	**0.1128**	**0.0296**	**9.1000e-004**	**0.0306**						**114.0942**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635						2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.6114**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**						**2,259.9481**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.1118	9.8000e-004	0.1128	0.0296	9.1000e-004	0.0306						114.0942
Total	**0.0360**	**0.0460**	**0.5711**	**1.4500e-003**	**0.1118**	**9.8000e-004**	**0.1128**	**0.0296**	**9.1000e-004**	**0.0306**						**114.0942**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447						2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.4259**	**14.9353**	**14.3652**	**0.0223**		**0.8094**	**0.8094**		**0.7447**	**0.7447**						**2,223.6499**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0331	0.0422	0.5244	1.4500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305						109.6208
Total	**0.0331**	**0.0422**	**0.5244**	**1.4500e-003**	**0.1118**	**9.6000e-004**	**0.1127**	**0.0296**	**8.9000e-004**	**0.0305**						**109.6208**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447						2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.4259**	**14.9353**	**14.3652**	**0.0223**		**0.8094**	**0.8094**		**0.7447**	**0.7447**						**2,223.6499**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0331	0.0422	0.5244	1.4500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305						109.6208
Total	**0.0331**	**0.0422**	**0.5244**	**1.4500e-003**	**0.1118**	**9.6000e-004**	**0.1127**	**0.0296**	**8.9000e-004**	**0.0305**						**109.6208**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799						2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.3301**	**13.7845**	**14.3523**	**0.0223**		**0.7390**	**0.7390**		**0.6799**	**0.6799**						**2,175.4326**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0311	0.0391	0.4888	1.4500e-003	0.1118	9.5000e-004	0.1127	0.0296	8.8000e-004	0.0305						105.2188
Total	**0.0311**	**0.0391**	**0.4888**	**1.4500e-003**	**0.1118**	**9.5000e-004**	**0.1127**	**0.0296**	**8.8000e-004**	**0.0305**						**105.2188**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799						2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.3301**	**13.7845**	**14.3523**	**0.0223**		**0.7390**	**0.7390**		**0.6799**	**0.6799**						**2,175.4326**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0311	0.0391	0.4888	1.4500e-003	0.1118	9.5000e-004	0.1127	0.0296	8.8000e-004	0.0305						105.2188
Total	**0.0311**	**0.0391**	**0.4888**	**1.4500e-003**	**0.1118**	**9.5000e-004**	**0.1127**	**0.0296**	**8.8000e-004**	**0.0305**						**105.2188**

3.6 Coatings - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506						282.0102
Total	**9.4983**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**						**282.0102**

3.6 Coatings - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1297	0.1657	2.0560	5.2300e-003	0.4024	3.5300e-003	0.4059	0.1067	3.2700e-003	0.1100						410.7391
Total	**0.1297**	**0.1657**	**2.0560**	**5.2300e-003**	**0.4024**	**3.5300e-003**	**0.4059**	**0.1067**	**3.2700e-003**	**0.1100**						**410.7391**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506						282.0102
Total	**9.4983**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**						**282.0102**

3.6 Coatings - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1297	0.1657	2.0560	5.2300e-003	0.4024	3.5300e-003	0.4059	0.1067	3.2700e-003	0.1100						410.7391
Total	**0.1297**	**0.1657**	**2.0560**	**5.2300e-003**	**0.4024**	**3.5300e-003**	**0.4059**	**0.1067**	**3.2700e-003**	**0.1100**						**410.7391**

3.6 Coatings - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288						281.9473
Total	**9.4661**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**						**281.9473**

3.6 Coatings - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1192	0.1519	1.8880	5.2100e-003	0.4024	3.4400e-003	0.4058	0.1067	3.1900e-003	0.1099						394.6348
Total	**0.1192**	**0.1519**	**1.8880**	**5.2100e-003**	**0.4024**	**3.4400e-003**	**0.4058**	**0.1067**	**3.1900e-003**	**0.1099**						**394.6348**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288						281.9473
Total	**9.4661**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**						**281.9473**

3.6 Coatings - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1192	0.1519	1.8880	5.2100e-003	0.4024	3.4400e-003	0.4058	0.1067	3.1900e-003	0.1099						394.6348
Total	**0.1192**	**0.1519**	**1.8880**	**5.2100e-003**	**0.4024**	**3.4400e-003**	**0.4058**	**0.1067**	**3.1900e-003**	**0.1099**						**394.6348**

3.6 Coatings - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109						281.9057
Total	**9.4419**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**						**281.9057**

3.6 Coatings - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1118	0.1408	1.7597	5.2100e-003	0.4024	3.4100e-003	0.4058	0.1067	3.1600e-003	0.1099						378.7878
Total	**0.1118**	**0.1408**	**1.7597**	**5.2100e-003**	**0.4024**	**3.4100e-003**	**0.4058**	**0.1067**	**3.1600e-003**	**0.1099**						**378.7878**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109						281.9057
Total	**9.4419**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**						**281.9057**

3.6 Coatings - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1118	0.1408	1.7597	5.2100e-003	0.4024	3.4100e-003	0.4058	0.1067	3.1600e-003	0.1099						378.7878
Total	**0.1118**	**0.1408**	**1.7597**	**5.2100e-003**	**0.4024**	**3.4100e-003**	**0.4058**	**0.1067**	**3.1600e-003**	**0.1099**						**378.7878**

3.6 Coatings - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941						281.8537
Total	**9.4186**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**						**281.8537**

3.6 Coatings - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1057	0.1315	1.6530	5.2200e-003	0.4024	3.4000e-003	0.4058	0.1067	3.1500e-003	0.1099						372.8580
Total	**0.1057**	**0.1315**	**1.6530**	**5.2200e-003**	**0.4024**	**3.4000e-003**	**0.4058**	**0.1067**	**3.1500e-003**	**0.1099**						**372.8580**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941						281.8537
Total	**9.4186**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**						**281.8537**

3.6 Coatings - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1057	0.1315	1.6530	5.2200e-003	0.4024	3.4000e-003	0.4058	0.1067	3.1500e-003	0.1099						372.8580
Total	**0.1057**	**0.1315**	**1.6530**	**5.2200e-003**	**0.4024**	**3.4000e-003**	**0.4058**	**0.1067**	**3.1500e-003**	**0.1099**						**372.8580**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.8153	31.1703	146.1641	0.5641	36.3929	0.7448	37.1377	9.7353	0.6872	10.4225						41,979.7103
Unmitigated	12.8153	31.1703	146.1641	0.5641	36.3929	0.7448	37.1377	9.7353	0.6872	10.4225						41,979.7103

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Single Family Housing	4,756.29	5,009.76	4358.69	16,182,606	16,182,606
User Defined Recreational	0.00	0.00	0.00		
Total	4,756.29	5,009.76	4,358.69	16,182,606	16,182,606

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
User Defined Recreational	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.520397	0.057988	0.180404	0.127035	0.040743	0.006604	0.017532	0.037311	0.002617	0.003209	0.003763	0.000522	0.001873

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3535	3.0232	1.3009	0.0193		0.2443	0.2443		0.2443	0.2443						3,880.1651
NaturalGas Unmitigated	0.4423	3.7825	1.6274	0.0241		0.3056	0.3056		0.3056	0.3056						4,854.8148

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Health Club	438.041	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003						51.8479
Single Family Housing	40578.3	0.4376	3.7396	1.5913	0.0239		0.3024	0.3024		0.3024	0.3024						4,802.9669
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**0.4423**	**3.7825**	**1.6274**	**0.0241**		**0.3056**	**0.3056**		**0.3056**	**0.3056**						**4,854.8148**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Health Club	0.354438	3.8200e-003	0.0348	0.0292	2.1000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003						41.9524
Single Family Housing	32.4275	0.3497	2.9884	1.2717	0.0191		0.2416	0.2416		0.2416	0.2416						3,838.2127
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**0.3535**	**3.0232**	**1.3009**	**0.0193**		**0.2443**	**0.2443**		**0.2443**	**0.2443**						**3,880.1651**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.0870	0.4725	41.0103	2.1700e-003		0.2273	0.2273		0.2273	0.2273						75.3734
Unmitigated	151.3189	3.7767	290.8233	0.3996		38.1923	38.1923		38.1863	38.1863						14,066.2302

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9710					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	17.8814					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	130.2319	3.3043	249.8130	0.3974		37.9650	37.9650		37.9590	37.9590						13,990.8567
Landscaping	1.2346	0.4725	41.0103	2.1700e-003		0.2273	0.2273		0.2273	0.2273						75.3734
Total	**151.3189**	**3.7767**	**290.8233**	**0.3996**		**38.1923**	**38.1923**		**38.1863**	**38.1863**						**14,066.2302**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9710					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	17.8814					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.2346	0.4725	41.0103	2.1700e-003		0.2273	0.2273		0.2273	0.2273						75.3734
Total	**21.0870**	**0.4725**	**41.0103**	**2.1700e-003**		**0.2273**	**0.2273**		**0.2273**	**0.2273**						**75.3734**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Los Valles AQ

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.93	Acre	7.93	0.00	0
Health Club	8.50	1000sqft	0.20	8,500.00	0
User Defined Recreational	223.15	User Defined Unit	223.15	0.00	0
Single Family Housing	497.00	Dwelling Unit	161.36	894,600.00	1421

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	501.88	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Including 33% RPS

Land Use - Based on Project Description "User Defined Recreational" is same as on-site "Open Spaces".

Construction Phase - grading 10/1/2015 to 6/30/17 trenching 7/1/17 to 1/1/18 building 11/1/17 to 1/31/20 paving 11/1/17 to 6/30/20 coatings 2/1/18 to 1/31/2021

Off-road Equipment - Fleet provided by client.

Off-road Equipment -

Off-road Equipment - Fleet provided by client.

Off-road Equipment -

Off-road Equipment - Fleet provided by client.

Off-road Equipment - Fleet provided by client.

Trips and VMT - Assume haul trip length during grading = 0.25 miles to reflect cut and fill balance on site. 10 haul trips during paving.

Grading - Assume approximately 300 acres graded, 7,799,517 cy of cut/fill balanced on site.

Architectural Coating -

Vehicle Trips - Based on Traffic Study - trips associated with single family homes only

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Woodstoves - Per SCAQMD rule 445, wood burning fire places are not allowed

Landscape Equipment -

Energy Use - Title 24 2008

Water And Wastewater - Based on Water Supply Assessment

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Assume watering 3x per day per SCAQMD guidelines.

Energy Mitigation - Exceed Title 24 2008 by 25% to meet Title 24 2013 requirements
75% Reduction for energy efficient lighting

Waste Mitigation - 75% waste diversion based on 2020 State goal.

Area Mitigation - no hearths

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	440.00	695.00
tblConstructionPhase	NumDays	620.00	457.00
tblConstructionPhase	NumDays	6,200.00	588.00
tblConstructionPhase	NumDays	440.00	782.00
tblConstructionPhase	PhaseEndDate	9/30/2022	6/30/2020
tblConstructionPhase	PhaseEndDate	4/2/2020	1/31/2020
tblConstructionPhase	PhaseEndDate	6/29/2023	1/31/2021
tblConstructionPhase	PhaseStartDate	2/1/2020	11/1/2017
tblConstructionPhase	PhaseStartDate	1/2/2018	11/1/2017
tblConstructionPhase	PhaseStartDate	7/1/2020	2/1/2018
tblGrading	AcresOfGrading	5,484.00	300.00
tblGrading	MaterialExported	0.00	3,899,759.00
tblGrading	MaterialImported	0.00	3,899,759.00
tblLandUse	LandUseSquareFeet	345,430.80	0.00
tblLandUse	LotAcreage	0.00	223.15
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	12.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	501.88
tblProjectCharacteristics	OperationalYear	2014	2024
tblSequestration	NumberOfNewTrees	0.00	6,320.00
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	1.59	0.00

tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	1.4420	12.4267	17.8072	0.0103	8.9594	0.4666	9.4261	4.6486	0.4292	5.0778						962.5479
2016	5.2338	46.5207	66.4296	0.0407	9.0312	1.7397	10.7710	4.6691	1.6004	6.2695						3,761.9714
2017	2.6748	23.7412	33.3393	0.0234	9.0448	0.9372	9.9820	4.6719	0.8652	5.5370						2,113.1014
2018	1.8479	6.2239	6.7775	0.0124	0.3656	0.3470	0.7126	0.0980	0.3246	0.4226						1,038.9153
2019	1.8764	5.5744	6.5817	0.0125	0.3701	0.3008	0.6709	0.0992	0.2815	0.3807						1,022.9312
2020	1.3745	1.4083	1.7764	3.3200e-003	0.0856	0.0767	0.1623	0.0228	0.0720	0.0948						268.3836
2021	0.1000	0.0176	0.0355	8.0000e-005	4.1400e-003	1.0200e-003	5.1700e-003	1.1000e-003	1.0200e-003	2.1200e-003						6.0902
Total	**14.5494**	**95.9128**	**132.7472**	**0.1027**	**27.8609**	**3.8691**	**31.7300**	**14.2106**	**3.5739**	**17.7845**						**9,173.9410**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	1.4420	12.4267	17.8072	0.0103	3.5570	0.4666	4.0237	1.8290	0.4292	2.2582						962.5470
2016	5.2338	46.5207	66.4296	0.0407	3.6289	1.7397	5.3686	1.8495	1.6004	3.4499						3,761.9678
2017	2.6748	23.7412	33.3392	0.0234	3.6424	0.9372	4.5796	1.8523	0.8652	2.7174						2,113.0994
2018	1.8479	6.2239	6.7775	0.0124	0.3656	0.3470	0.7126	0.0980	0.3246	0.4226						1,038.9145
2019	1.8764	5.5744	6.5817	0.0125	0.3701	0.3008	0.6709	0.0992	0.2815	0.3807						1,022.9305
2020	1.3745	1.4083	1.7764	3.3200e-003	0.0856	0.0767	0.1623	0.0228	0.0720	0.0948						268.3834
2021	0.1000	0.0176	0.0355	8.0000e-005	4.1400e-003	1.0200e-003	5.1700e-003	1.1000e-003	1.0200e-003	2.1200e-003						6.0902
Total	**14.5493**	**95.9127**	**132.7471**	**0.1027**	**11.6537**	**3.8691**	**15.5229**	**5.7518**	**3.5739**	**9.3258**						**9,173.9328**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**58.17**	**0.00**	**51.08**	**59.52**	**0.00**	**47.56**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.4053	0.1004	8.2490	5.2400e-003		0.5030	0.5030		0.5029	0.5029						167.2009
Energy	0.0807	0.6903	0.2970	4.4000e-003		0.0558	0.0558		0.0558	0.0558						1,656.6001
Mobile	2.1856	5.7593	25.3234	0.0938	6.1403	0.1281	6.2684	1.6452	0.1182	1.7635						6,347.1351
Waste						0.0000	0.0000		0.0000	0.0000						287.3885
Water						0.0000	0.0000		0.0000	0.0000						215.4172
Total	**7.6716**	**6.5500**	**33.8694**	**0.1034**	**6.1403**	**0.6869**	**6.8272**	**1.6452**	**0.6769**	**2.3221**						**8,673.7418**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7774	0.0591	5.1263	2.7000e-004		0.0284	0.0284		0.0284	0.0284						8.5472
Energy	0.0645	0.5517	0.2374	3.5200e-003		0.0446	0.0446		0.0446	0.0446						1,308.2347
Mobile	2.1856	5.7593	25.3234	0.0938	6.1403	0.1281	6.2684	1.6452	0.1182	1.7635						6,347.1351
Waste						0.0000	0.0000		0.0000	0.0000						71.8471
Water						0.0000	0.0000		0.0000	0.0000						215.4006
Total	**6.0275**	**6.3701**	**30.6871**	**0.0976**	**6.1403**	**0.2011**	**6.3414**	**1.6452**	**0.1912**	**1.8364**						**7,951.1647**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**21.43**	**2.75**	**9.40**	**5.66**	**0.00**	**70.72**	**7.11**	**0.00**	**71.75**	**20.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**8.33**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	4,474.5600
Vegetation Land Change	6,969.1610
Total	**11,443.7210**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2015	6/30/2017	5	457	
2	Trenching	Trenching	7/1/2017	1/1/2018	5	131	
3	Building	Building Construction	11/1/2017	1/31/2020	5	588	
4	Paving	Paving	11/1/2017	6/30/2020	5	695	
5	Coatings	Architectural Coating	2/1/2018	1/31/2021	5	782	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 300

Acres of Paving: 0

Residential Indoor: 1,811,565; Residential Outdoor: 603,855; Non-Residential Indoor: 12,750; Non-Residential Outdoor: 4,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	6	8.00	255	0.40
Grading	Scrapers	12	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coatings	Air Compressors	1	6.00	78	0.48
Building	Cranes	1	7.00	226	0.29
Building	Forklifts	3	8.00	89	0.20
Trenching	Generator Sets	1	8.00	84	0.74
Trenching	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Trenching	Welders	1	8.00	46	0.45
Building	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Building	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	21	53.00	0.00	974,940.00	14.70	6.90	0.25	LD_Mix	HDT_Mix	HHDT
Coatings	1	36.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building	9	182.00	55.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8564	0.0000	8.8564	4.6223	0.0000	4.6223						0.0000
Off-Road	0.8611	10.6009	7.0313	8.0400e-003		0.4560	0.4560		0.4195	0.4195						770.8655
Total	**0.8611**	**10.6009**	**7.0313**	**8.0400e-003**	**8.8564**	**0.4560**	**9.3124**	**4.6223**	**0.4195**	**5.0418**						**770.8655**

3.2 Grading - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.5724	1.8135	10.6474	2.0300e-003	0.0839	0.0104	0.0943	0.0212	9.5100e-003	0.0307						172.3108
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4800e-003	0.0123	0.1286	2.4000e-004	0.0192	2.0000e-004	0.0194	5.0900e-003	1.8000e-004	5.2700e-003						19.3717
Total	**0.5809**	**1.8258**	**10.7759**	**2.2700e-003**	**0.1031**	**0.0106**	**0.1136**	**0.0263**	**9.6900e-003**	**0.0360**						**191.6825**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4540	0.0000	3.4540	1.8027	0.0000	1.8027						0.0000
Off-Road	0.8611	10.6009	7.0313	8.0400e-003		0.4560	0.4560		0.4195	0.4195						770.8645
Total	**0.8611**	**10.6009**	**7.0313**	**8.0400e-003**	**3.4540**	**0.4560**	**3.9100**	**1.8027**	**0.4195**	**2.2222**						**770.8645**

3.2 Grading - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.5724	1.8135	10.6474	2.0300e-003	0.0839	0.0104	0.0943	0.0212	9.5100e-003	0.0307						172.3108
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4800e-003	0.0123	0.1286	2.4000e-004	0.0192	2.0000e-004	0.0194	5.0900e-003	1.8000e-004	5.2700e-003						19.3717
Total	**0.5809**	**1.8258**	**10.7759**	**2.2700e-003**	**0.1031**	**0.0106**	**0.1136**	**0.0263**	**9.6900e-003**	**0.0360**						**191.6825**

3.2 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8564	0.0000	8.8564	4.6223	0.0000	4.6223						0.0000
Off-Road	3.2741	39.8434	26.5464	0.0318		1.7099	1.7099		1.5731	1.5731						3,015.0812
Total	**3.2741**	**39.8434**	**26.5464**	**0.0318**	**8.8564**	**1.7099**	**10.5662**	**4.6223**	**1.5731**	**6.1953**						**3,015.0812**

3.2 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9295	6.6332	39.4232	7.9700e-003	0.0991	0.0291	0.1282	0.0267	0.0267	0.0534						672.8454
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0302	0.0441	0.4600	9.6000e-004	0.0758	7.3000e-004	0.0765	0.0201	6.7000e-004	0.0208						74.0449
Total	**1.9597**	**6.6773**	**39.8832**	**8.9300e-003**	**0.1749**	**0.0299**	**0.2047**	**0.0468**	**0.0273**	**0.0742**						**746.8902**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4540	0.0000	3.4540	1.8027	0.0000	1.8027						0.0000
Off-Road	3.2740	39.8433	26.5463	0.0318		1.7099	1.7099		1.5731	1.5731						3,015.0776
Total	**3.2740**	**39.8433**	**26.5463**	**0.0318**	**3.4540**	**1.7099**	**5.1638**	**1.8027**	**1.5731**	**3.3758**						**3,015.0776**

3.2 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9295	6.6332	39.4232	7.9700e-003	0.0991	0.0291	0.1282	0.0267	0.0267	0.0534						672.8454
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0302	0.0441	0.4600	9.6000e-004	0.0758	7.3000e-004	0.0765	0.0201	6.7000e-004	0.0208						74.0449
Total	**1.9597**	**6.6773**	**39.8832**	**8.9300e-003**	**0.1749**	**0.0299**	**0.2047**	**0.0468**	**0.0273**	**0.0742**						**746.8902**

3.2 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8564	0.0000	8.8564	4.6223	0.0000	4.6223						0.0000
Off-Road	1.5423	18.5302	12.3651	0.0158		0.7924	0.7924		0.7290	0.7290						1,478.7987
Total	**1.5423**	**18.5302**	**12.3651**	**0.0158**	**8.8564**	**0.7924**	**9.6488**	**4.6223**	**0.7290**	**5.3513**						**1,478.7987**

3.2 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.8585	3.1371	18.8510	3.9500e-003	0.0889	0.0129	0.1017	0.0230	0.0118	0.0348						329.1928
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0135	0.0199	0.2070	4.8000e-004	0.0378	3.5000e-004	0.0381	0.0100	3.2000e-004	0.0104						35.4968
Total	**0.8720**	**3.1570**	**19.0580**	**4.4300e-003**	**0.1266**	**0.0132**	**0.1398**	**0.0330**	**0.0121**	**0.0452**						**364.6896**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4540	0.0000	3.4540	1.8027	0.0000	1.8027						0.0000
Off-Road	1.5423	18.5302	12.3650	0.0158		0.7924	0.7924		0.7290	0.7290						1,478.7970
Total	**1.5423**	**18.5302**	**12.3650**	**0.0158**	**3.4540**	**0.7924**	**4.2464**	**1.8027**	**0.7290**	**2.5317**						**1,478.7970**

3.2 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.8585	3.1371	18.8510	3.9500e-003	0.0889	0.0129	0.1017	0.0230	0.0118	0.0348						329.1928
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0135	0.0199	0.2070	4.8000e-004	0.0378	3.5000e-004	0.0381	0.0100	3.2000e-004	0.0104						35.4968
Total	**0.8720**	**3.1570**	**19.0580**	**4.4300e-003**	**0.1266**	**0.0132**	**0.1398**	**0.0330**	**0.0121**	**0.0452**						**364.6896**

3.3 Trenching - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1237	0.9227	0.7781	1.1200e-003		0.0669	0.0669		0.0638	0.0638						98.6716
Total	**0.1237**	**0.9227**	**0.7781**	**1.1200e-003**		**0.0669**	**0.0669**		**0.0638**	**0.0638**						**98.6716**

3.3 Trenching - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.3100e-003	4.8800e-003	0.0508	1.2000e-004	9.2600e-003	9.0000e-005	9.3500e-003	2.4600e-003	8.0000e-005	2.5400e-003						8.7068
Total	**3.3100e-003**	**4.8800e-003**	**0.0508**	**1.2000e-004**	**9.2600e-003**	**9.0000e-005**	**9.3500e-003**	**2.4600e-003**	**8.0000e-005**	**2.5400e-003**						**8.7068**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1237	0.9227	0.7781	1.1200e-003		0.0669	0.0669		0.0638	0.0638						98.6715
Total	**0.1237**	**0.9227**	**0.7781**	**1.1200e-003**		**0.0669**	**0.0669**		**0.0638**	**0.0638**						**98.6715**

3.3 Trenching - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.3100e-003	4.8800e-003	0.0508	1.2000e-004	9.2600e-003	9.0000e-005	9.3500e-003	2.4600e-003	8.0000e-005	2.5400e-003						8.7068
Total	**3.3100e-003**	**4.8800e-003**	**0.0508**	**1.2000e-004**	**9.2600e-003**	**9.0000e-005**	**9.3500e-003**	**2.4600e-003**	**8.0000e-005**	**2.5400e-003**						**8.7068**

3.3 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2000e-004	6.3500e-003	5.8700e-003	1.0000e-005		4.3000e-004	4.3000e-004		4.1000e-004	4.1000e-004						0.7524
Total	**8.2000e-004**	**6.3500e-003**	**5.8700e-003**	**1.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.1000e-004**	**4.1000e-004**						**0.7524**

3.3 Trenching - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	2.0000e-005	3.0000e-005	3.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005						0.0645
Total	**2.0000e-005**	**3.0000e-005**	**3.5000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**						**0.0645**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2000e-004	6.3500e-003	5.8700e-003	1.0000e-005		4.3000e-004	4.3000e-004		4.1000e-004	4.1000e-004						0.7524
Total	**8.2000e-004**	**6.3500e-003**	**5.8700e-003**	**1.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.1000e-004**	**4.1000e-004**						**0.7524**

3.3 Trenching - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	2.0000e-005	3.0000e-005	3.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005						0.0645
Total	**2.0000e-005**	**3.0000e-005**	**3.5000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**						**0.0645**

3.4 Building - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0667	0.5677	0.3898	5.8000e-004		0.0383	0.0383		0.0360	0.0360						51.7541
Total	**0.0667**	**0.5677**	**0.3898**	**5.8000e-004**		**0.0383**	**0.0383**		**0.0360**	**0.0360**						**51.7541**

3.4 Building - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	9.6900e-003	0.0986	0.1330	2.6000e-004	7.2600e-003	1.4500e-003	8.7000e-003	2.0700e-003	1.3300e-003	3.4000e-003						23.1692
Worker	0.0153	0.0226	0.2351	5.5000e-004	0.0429	4.0000e-004	0.0433	0.0114	3.7000e-004	0.0118						40.3190
Total	**0.0250**	**0.1212**	**0.3681**	**8.1000e-004**	**0.0501**	**1.8500e-003**	**0.0520**	**0.0135**	**1.7000e-003**	**0.0152**						**63.4882**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0667	0.5677	0.3898	5.8000e-004		0.0383	0.0383		0.0360	0.0360						51.7541
Total	**0.0667**	**0.5677**	**0.3898**	**5.8000e-004**		**0.0383**	**0.0383**		**0.0360**	**0.0360**						**51.7541**

3.4 Building - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	9.6900e-003	0.0986	0.1330	2.6000e-004	7.2600e-003	1.4500e-003	8.7000e-003	2.0700e-003	1.3300e-003	3.4000e-003						23.1692
Worker	0.0153	0.0226	0.2351	5.5000e-004	0.0429	4.0000e-004	0.0433	0.0114	3.7000e-004	0.0118						40.3190
Total	**0.0250**	**0.1212**	**0.3681**	**8.1000e-004**	**0.0501**	**1.8500e-003**	**0.0520**	**0.0135**	**1.7000e-003**	**0.0152**						**63.4882**

3.4 Building - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833						310.5723
Total	**0.3483**	**3.0355**	**2.2880**	**3.5000e-003**		**0.1950**	**0.1950**		**0.1833**	**0.1833**						**310.5723**

3.4 Building - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0553	0.5498	0.7748	1.5700e-003	0.0441	8.2700e-003	0.0523	0.0126	7.6100e-003	0.0202						138.3079
Worker	0.0833	0.1244	1.2923	3.3100e-003	0.2603	2.3300e-003	0.2626	0.0691	2.1500e-003	0.0713						235.7484
Total	**0.1386**	**0.6742**	**2.0670**	**4.8800e-003**	**0.3043**	**0.0106**	**0.3149**	**0.0817**	**9.7600e-003**	**0.0915**						**374.0563**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833						310.5720
Total	**0.3483**	**3.0355**	**2.2880**	**3.5000e-003**		**0.1950**	**0.1950**		**0.1833**	**0.1833**						**310.5720**

3.4 Building - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0553	0.5498	0.7748	1.5700e-003	0.0441	8.2700e-003	0.0523	0.0126	7.6100e-003	0.0202						138.3079
Worker	0.0833	0.1244	1.2923	3.3100e-003	0.2603	2.3300e-003	0.2626	0.0691	2.1500e-003	0.0713						235.7484
Total	**0.1386**	**0.6742**	**2.0670**	**4.8800e-003**	**0.3043**	**0.0106**	**0.3149**	**0.0817**	**9.7600e-003**	**0.0915**						**374.0563**

3.4 Building - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577						307.0913
Total	**0.3069**	**2.7359**	**2.2342**	**3.5000e-003**		**0.1677**	**0.1677**		**0.1577**	**0.1577**						**307.0913**

3.4 Building - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0524	0.5070	0.7492	1.5600e-003	0.0441	7.8600e-003	0.0519	0.0126	7.2300e-003	0.0198						135.4687
Worker	0.0764	0.1141	1.1840	3.2900e-003	0.2603	2.2700e-003	0.2625	0.0691	2.1100e-003	0.0712						226.4939
Total	**0.1288**	**0.6211**	**1.9332**	**4.8500e-003**	**0.3043**	**0.0101**	**0.3145**	**0.0817**	**9.3400e-003**	**0.0910**						**361.9626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577						307.0909
Total	**0.3069**	**2.7359**	**2.2342**	**3.5000e-003**		**0.1677**	**0.1677**		**0.1577**	**0.1577**						**307.0909**

3.4 Building - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0524	0.5070	0.7492	1.5600e-003	0.0441	7.8600e-003	0.0519	0.0126	7.2300e-003	0.0198						135.4687
Worker	0.0764	0.1141	1.1840	3.2900e-003	0.2603	2.2700e-003	0.2625	0.0691	2.1100e-003	0.0712						226.4939
Total	**0.1288**	**0.6211**	**1.9332**	**4.8500e-003**	**0.3043**	**0.0101**	**0.3145**	**0.0817**	**9.3400e-003**	**0.0910**						**361.9626**

3.4 Building - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0243	0.2195	0.1933	3.1000e-004		0.0128	0.0128		0.0120	0.0120						26.6605
Total	**0.0243**	**0.2195**	**0.1933**	**3.1000e-004**		**0.0128**	**0.0128**		**0.0120**	**0.0120**						**26.6605**

3.4 Building - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	4.4100e-003	0.0391	0.0642	1.4000e-004	3.8800e-003	6.3000e-004	4.5200e-003	1.1100e-003	5.8000e-004	1.6900e-003						11.6719
Worker	6.3100e-003	9.3200e-003	0.0971	2.9000e-004	0.0229	2.0000e-004	0.0231	6.0900e-003	1.8000e-004	6.2800e-003						19.1567
Total	**0.0107**	**0.0484**	**0.1613**	**4.3000e-004**	**0.0268**	**8.3000e-004**	**0.0277**	**7.2000e-003**	**7.6000e-004**	**7.9700e-003**						**30.8286**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0243	0.2195	0.1933	3.1000e-004		0.0128	0.0128		0.0120	0.0120						26.6604
Total	**0.0243**	**0.2195**	**0.1933**	**3.1000e-004**		**0.0128**	**0.0128**		**0.0120**	**0.0120**						**26.6604**

3.4 Building - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	4.4100e-003	0.0391	0.0642	1.4000e-004	3.8800e-003	6.3000e-004	4.5200e-003	1.1100e-003	5.8000e-004	1.6900e-003						11.6719
Worker	6.3100e-003	9.3200e-003	0.0971	2.9000e-004	0.0229	2.0000e-004	0.0231	6.0900e-003	1.8000e-004	6.2800e-003						19.1567
Total	**0.0107**	**0.0484**	**0.1613**	**4.3000e-004**	**0.0268**	**8.3000e-004**	**0.0277**	**7.2000e-003**	**7.6000e-004**	**7.9700e-003**						**30.8286**

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0410	0.4364	0.3166	4.8000e-004		0.0245	0.0245		0.0225	0.0225						44.7771
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0410**	**0.4364**	**0.3166**	**4.8000e-004**		**0.0245**	**0.0245**		**0.0225**	**0.0225**						**44.7771**

3.5 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4000e-004	1.2400e-003	0.0129	3.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.5000e-004						2.2153
Total	**8.4000e-004**	**1.2400e-003**	**0.0129**	**3.0000e-005**	**2.3600e-003**	**2.0000e-005**	**2.3800e-003**	**6.3000e-004**	**2.0000e-005**	**6.5000e-004**						**2.2153**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0410	0.4364	0.3166	4.8000e-004		0.0245	0.0245		0.0225	0.0225						44.7771
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0410**	**0.4364**	**0.3166**	**4.8000e-004**		**0.0245**	**0.0245**		**0.0225**	**0.0225**						**44.7771**

3.5 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4000e-004	1.2400e-003	0.0129	3.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.5000e-004						2.2153
Total	**8.4000e-004**	**1.2400e-003**	**0.0129**	**3.0000e-005**	**2.3600e-003**	**2.0000e-005**	**2.3800e-003**	**6.3000e-004**	**2.0000e-005**	**6.5000e-004**						**2.2153**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2103	2.2397	1.8915	2.9100e-003		0.1225	0.1225		0.1127	0.1127						267.5499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.2103**	**2.2397**	**1.8915**	**2.9100e-003**		**0.1225**	**0.1225**		**0.1127**	**0.1127**						**267.5499**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.5800e-003	6.8400e-003	0.0710	1.8000e-004	0.0143	1.3000e-004	0.0144	3.8000e-003	1.2000e-004	3.9200e-003						12.9532
Total	**4.5800e-003**	**6.8400e-003**	**0.0710**	**1.8000e-004**	**0.0143**	**1.3000e-004**	**0.0144**	**3.8000e-003**	**1.2000e-004**	**3.9200e-003**						**12.9532**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2103	2.2397	1.8915	2.9100e-003		0.1225	0.1225		0.1127	0.1127						267.5495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.2103**	**2.2397**	**1.8915**	**2.9100e-003**		**0.1225**	**0.1225**		**0.1127**	**0.1127**						**267.5495**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.5800e-003	6.8400e-003	0.0710	1.8000e-004	0.0143	1.3000e-004	0.0144	3.8000e-003	1.2000e-004	3.9200e-003						12.9532
Total	**4.5800e-003**	**6.8400e-003**	**0.0710**	**1.8000e-004**	**0.0143**	**1.3000e-004**	**0.0144**	**3.8000e-003**	**1.2000e-004**	**3.9200e-003**						**12.9532**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1861	1.9491	1.8747	2.9100e-003		0.1056	0.1056		0.0972	0.0972						263.2526
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.1861**	**1.9491**	**1.8747**	**2.9100e-003**		**0.1056**	**0.1056**		**0.0972**	**0.0972**						**263.2526**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.2000e-003	6.2700e-003	0.0651	1.8000e-004	0.0143	1.2000e-004	0.0144	3.8000e-003	1.2000e-004	3.9100e-003						12.4447
Total	**4.2000e-003**	**6.2700e-003**	**0.0651**	**1.8000e-004**	**0.0143**	**1.2000e-004**	**0.0144**	**3.8000e-003**	**1.2000e-004**	**3.9100e-003**						**12.4447**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1861	1.9491	1.8747	2.9100e-003		0.1056	0.1056		0.0972	0.0972						263.2523
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.1861**	**1.9491**	**1.8747**	**2.9100e-003**		**0.1056**	**0.1056**		**0.0972**	**0.0972**						**263.2523**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.2000e-003	6.2700e-003	0.0651	1.8000e-004	0.0143	1.2000e-004	0.0144	3.8000e-003	1.2000e-004	3.9100e-003						12.4447
Total	**4.2000e-003**	**6.2700e-003**	**0.0651**	**1.8000e-004**	**0.0143**	**1.2000e-004**	**0.0144**	**3.8000e-003**	**1.2000e-004**	**3.9100e-003**						**12.4447**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0865	0.8960	0.9329	1.4500e-003		0.0480	0.0480		0.0442	0.0442						128.2788
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0865**	**0.8960**	**0.9329**	**1.4500e-003**		**0.0480**	**0.0480**		**0.0442**	**0.0442**						**128.2788**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.9600e-003	2.8900e-003	0.0302	9.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003						5.9493
Total	**1.9600e-003**	**2.8900e-003**	**0.0302**	**9.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**						**5.9493**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0865	0.8960	0.9329	1.4500e-003		0.0480	0.0480		0.0442	0.0442						128.2786
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0865**	**0.8960**	**0.9329**	**1.4500e-003**		**0.0480**	**0.0480**		**0.0442**	**0.0442**						**128.2786**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.9600e-003	2.8900e-003	0.0302	9.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003						5.9493
Total	**1.9600e-003**	**2.8900e-003**	**0.0302**	**9.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**						**5.9493**

3.6 Coatings - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0948					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0355	0.2387	0.2207	3.5000e-004		0.0179	0.0179		0.0179	0.0179						30.4444
Total	**1.1303**	**0.2387**	**0.2207**	**3.5000e-004**		**0.0179**	**0.0179**		**0.0179**	**0.0179**						**30.4444**

3.6 Coatings - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0150	0.0224	0.2331	6.0000e-004	0.0469	4.2000e-004	0.0474	0.0125	3.9000e-004	0.0129						42.5223
Total	**0.0150**	**0.0224**	**0.2331**	**6.0000e-004**	**0.0469**	**4.2000e-004**	**0.0474**	**0.0125**	**3.9000e-004**	**0.0129**						**42.5223**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0948					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0355	0.2387	0.2207	3.5000e-004		0.0179	0.0179		0.0179	0.0179						30.4444
Total	**1.1303**	**0.2387**	**0.2207**	**3.5000e-004**		**0.0179**	**0.0179**		**0.0179**	**0.0179**						**30.4444**

3.6 Coatings - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0150	0.0224	0.2331	6.0000e-004	0.0469	4.2000e-004	0.0474	0.0125	3.9000e-004	0.0129						42.5223
Total	**0.0150**	**0.0224**	**0.2331**	**6.0000e-004**	**0.0469**	**4.2000e-004**	**0.0474**	**0.0125**	**3.9000e-004**	**0.0129**						**42.5223**

3.6 Coatings - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2006					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e-004		0.0168	0.0168		0.0168	0.0168						33.3791
Total	**1.2353**	**0.2395**	**0.2403**	**3.9000e-004**		**0.0168**	**0.0168**		**0.0168**	**0.0168**						**33.3791**

3.6 Coatings - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0151	0.0226	0.2342	6.5000e-004	0.0515	4.5000e-004	0.0519	0.0137	4.2000e-004	0.0141						44.8010
Total	**0.0151**	**0.0226**	**0.2342**	**6.5000e-004**	**0.0515**	**4.5000e-004**	**0.0519**	**0.0137**	**4.2000e-004**	**0.0141**						**44.8010**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2006					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e-004		0.0168	0.0168		0.0168	0.0168						33.3790
Total	**1.2353**	**0.2395**	**0.2403**	**3.9000e-004**		**0.0168**	**0.0168**		**0.0168**	**0.0168**						**33.3790**

3.6 Coatings - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0151	0.0226	0.2342	6.5000e-004	0.0515	4.5000e-004	0.0519	0.0137	4.2000e-004	0.0141						44.8010
Total	**0.0151**	**0.0226**	**0.2342**	**6.5000e-004**	**0.0515**	**4.5000e-004**	**0.0519**	**0.0137**	**4.2000e-004**	**0.0141**						**44.8010**

3.6 Coatings - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2052					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145						33.5020
Total	**1.2369**	**0.2206**	**0.2399**	**3.9000e-004**		**0.0145**	**0.0145**		**0.0145**	**0.0145**						**33.5020**

3.6 Coatings - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0142	0.0210	0.2188	6.5000e-004	0.0517	4.5000e-004	0.0521	0.0137	4.1000e-004	0.0141						43.1644
Total	**0.0142**	**0.0210**	**0.2188**	**6.5000e-004**	**0.0517**	**4.5000e-004**	**0.0521**	**0.0137**	**4.1000e-004**	**0.0141**						**43.1644**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2052					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145						33.5020
Total	**1.2369**	**0.2206**	**0.2399**	**3.9000e-004**		**0.0145**	**0.0145**		**0.0145**	**0.0145**						**33.5020**

3.6 Coatings - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0142	0.0210	0.2188	6.5000e-004	0.0517	4.5000e-004	0.0521	0.0137	4.1000e-004	0.0141						43.1644
Total	**0.0142**	**0.0210**	**0.2188**	**6.5000e-004**	**0.0517**	**4.5000e-004**	**0.0521**	**0.0137**	**4.1000e-004**	**0.0141**						**43.1644**

3.6 Coatings - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0966					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	2.3000e-003	0.0160	0.0191	3.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004						2.6848
Total	**0.0989**	**0.0160**	**0.0191**	**3.0000e-005**		**9.9000e-004**	**9.9000e-004**		**9.9000e-004**	**9.9000e-004**						**2.6848**

3.6 Coatings - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.0800e-003	1.5700e-003	0.0165	5.0000e-005	4.1400e-003	4.0000e-005	4.1800e-003	1.1000e-003	3.0000e-005	1.1300e-003						3.4054
Total	**1.0800e-003**	**1.5700e-003**	**0.0165**	**5.0000e-005**	**4.1400e-003**	**4.0000e-005**	**4.1800e-003**	**1.1000e-003**	**3.0000e-005**	**1.1300e-003**						**3.4054**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0966					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	2.3000e-003	0.0160	0.0191	3.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004						2.6848
Total	**0.0989**	**0.0160**	**0.0191**	**3.0000e-005**		**9.9000e-004**	**9.9000e-004**		**9.9000e-004**	**9.9000e-004**						**2.6848**

3.6 Coatings - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.0800e-003	1.5700e-003	0.0165	5.0000e-005	4.1400e-003	4.0000e-005	4.1800e-003	1.1000e-003	3.0000e-005	1.1300e-003						3.4054
Total	**1.0800e-003**	**1.5700e-003**	**0.0165**	**5.0000e-005**	**4.1400e-003**	**4.0000e-005**	**4.1800e-003**	**1.1000e-003**	**3.0000e-005**	**1.1300e-003**						**3.4054**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1856	5.7593	25.3234	0.0938	6.1403	0.1281	6.2684	1.6452	0.1182	1.7635						6,347.1351
Unmitigated	2.1856	5.7593	25.3234	0.0938	6.1403	0.1281	6.2684	1.6452	0.1182	1.7635						6,347.1351

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Single Family Housing	4,756.29	5,009.76	4358.69	16,182,606	16,182,606
User Defined Recreational	0.00	0.00	0.00		
Total	4,756.29	5,009.76	4,358.69	16,182,606	16,182,606

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
User Defined Recreational	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.520397	0.057988	0.180404	0.127035	0.040743	0.006604	0.017532	0.037311	0.002617	0.003209	0.003763	0.000522	0.001873

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						665.8298
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						852.8310
NaturalGas Mitigated	0.0645	0.5517	0.2374	3.5200e-003		0.0446	0.0446		0.0446	0.0446						642.4048
NaturalGas Unmitigated	0.0807	0.6903	0.2970	4.4000e-003		0.0558	0.0558		0.0558	0.0558						803.7690

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Health Club	159885	8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004						8.5840
Single Family Housing	1.48111e+007	0.0799	0.6825	0.2904	4.3600e-003		0.0552	0.0552		0.0552	0.0552						795.1850
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**0.0807**	**0.6903**	**0.2970**	**4.4100e-003**		**0.0558**	**0.0558**		**0.0558**	**0.0558**						**803.7690**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Health Club	129370	7.0000e-004	6.3400e-003	5.3300e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004						6.9457
Single Family Housing	1.1836e+007	0.0638	0.5454	0.2321	3.4800e-003		0.0441	0.0441		0.0441	0.0441						635.4592
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**0.0645**	**0.5517**	**0.2374**	**3.5200e-003**		**0.0446**	**0.0446**		**0.0446**	**0.0446**						**642.4048**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0				0.0000
Health Club	102425				23.4317
Single Family Housing	3.62549e+006				829.3994
User Defined Recreational	0				0.0000
Total					**852.8310**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0				0.0000
Health Club	73950				16.9175
Single Family Housing	2.83654e+006				648.9124
User Defined Recreational	0				0.0000
Total					**665.8298**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7774	0.0591	5.1263	2.7000e-004		0.0284	0.0284		0.0284	0.0284						8.5472
Unmitigated	5.4053	0.1004	8.2490	5.2400e-003		0.5030	0.5030		0.5029	0.5029						167.2009

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3597					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.2634					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	1.6279	0.0413	3.1227	4.9700e-003		0.4746	0.4746		0.4745	0.4745						158.6537
Landscaping	0.1543	0.0591	5.1263	2.7000e-004		0.0284	0.0284		0.0284	0.0284						8.5472
Total	**5.4053**	**0.1004**	**8.2490**	**5.2400e-003**		**0.5030**	**0.5030**		**0.5029**	**0.5029**						**167.2009**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3597					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.2634					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.1543	0.0591	5.1263	2.7000e-004		0.0284	0.0284		0.0284	0.0284						8.5472
Total	**3.7774**	**0.0591**	**5.1263**	**2.7000e-004**		**0.0284**	**0.0284**		**0.0284**	**0.0284**						**8.5472**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				215.4006
Unmitigated				215.4172

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 9.44845				24.0144
Health Club	0.502717 / 0.308117				2.9040
Single Family Housing	32.3816 / 20.4145				188.4988
User Defined Recreational	0 / 0				0.0000
Total					**215.4172**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 9.44845				24.0144
Health Club	0.502717 / 0.308117				2.9038
Single Family Housing	32.3816 / 20.4145				188.4825
User Defined Recreational	0 / 0				0.0000
Total					**215.4006**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				71.8471
Unmitigated				287.3885

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.68				0.3093
Health Club	48.45				22.0407
Single Family Housing	582.61				265.0385
User Defined Recreational	0				0.0000
Total					**287.3885**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.17				0.0773
Health Club	12.1125				5.5102
Single Family Housing	145.653				66.2596
User Defined Recreational	0				0.0000
Total					**71.8471**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated				11,443.7210

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	0 / 10.8				46.5480
Grassland	151.7 / 0				-653.8270
Scrub	0 / 29.6				423.2800
Trees	0 / 63.7				7,070.7000
Cropland	0 / 13.3				82.4600
Total					**6,969.1610**

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	6320				4,474.5600
Total					**4,474.5600**

Los Valles AQ

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.93	Acre	7.93	0.00	0
Health Club	8.50	1000sqft	0.20	8,500.00	0
User Defined Recreational	223.15	User Defined Unit	223.15	0.00	0
Single Family Housing	497.00	Dwelling Unit	161.36	894,600.00	1421

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	501.88	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Including 33% RPS

Land Use - Based on Project Description "User Defined Recreational" is same as on-site "Open Spaces".

Construction Phase - grading 10/1/2015 to 6/30/17 trenching 7/1/17 to 1/1/18 building 11/1/17 to 1/31/20 paving 11/1/17 to 6/30/20 coatings 2/1/18 to 1/31/2021

Off-road Equipment - Fleet provided by client.

Off-road Equipment -

Off-road Equipment - Fleet provided by client.

Off-road Equipment -

Off-road Equipment - Fleet provided by client.

Off-road Equipment - Fleet provided by client.

Trips and VMT - Assume haul trip length during grading = 0.25 miles to reflect cut and fill balance on site. 10 haul trips during paving.

Grading - Assume approximately 300 acres graded, 7,799,517 cy of cut/fill balanced on site.

Architectural Coating -

Vehicle Trips - Based on Traffic Study - trips associated with single family homes only

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Woodstoves - Per SCAQMD rule 445, wood burning fire places are not allowed

Landscape Equipment -

Energy Use - Title 24 2008

Water And Wastewater - Based on Water Supply Assessment

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Assume watering 3x per day per SCAQMD guidelines, Tier 3 Engines

Energy Mitigation - Exceed Title 24 2008 by 25% to meet Title 24 2013 requirements
75% Reduction for energy efficient lighting

Waste Mitigation - 75% waste diversion based on 2020 State goal.

Area Mitigation - no hearths

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	440.00	695.00
tblConstructionPhase	NumDays	620.00	457.00

tblConstructionPhase	NumDays	6,200.00	588.00
tblConstructionPhase	NumDays	440.00	782.00
tblConstructionPhase	PhaseEndDate	9/30/2022	6/30/2020
tblConstructionPhase	PhaseEndDate	4/2/2020	1/31/2020
tblConstructionPhase	PhaseEndDate	6/29/2023	1/31/2021
tblConstructionPhase	PhaseStartDate	2/1/2020	11/1/2017
tblConstructionPhase	PhaseStartDate	1/2/2018	11/1/2017
tblConstructionPhase	PhaseStartDate	7/1/2020	2/1/2018
tblGrading	AcresOfGrading	5,484.00	300.00
tblGrading	MaterialExported	0.00	3,899,759.00
tblGrading	MaterialImported	0.00	3,899,759.00
tblLandUse	LandUseSquareFeet	345,430.80	0.00
tblLandUse	LotAcreage	0.00	223.15
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	12.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	501.88
tblProjectCharacteristics	OperationalYear	2014	2024
tblSequestration	NumberOfNewTrees	0.00	6,320.00
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	41.8843	375.9479	485.6803	0.3137	41.9481	14.1237	56.0718	21.0417	12.9917	34.0334						32,339.4314
2016	38.5891	355.8954	454.9279	0.3130	40.1243	13.3222	53.4464	20.5940	12.2551	32.8491						31,961.6073
2017	35.8245	333.0833	429.0488	0.3127	40.7465	12.3862	53.1327	20.7468	11.3946	32.1413						31,444.4852
2018	14.9992	58.0993	60.4897	0.1083	2.8917	3.3808	6.0154	0.7735	3.1705	3.8758						10,053.2925
2019	14.3774	42.4195	50.1171	0.0971	2.8918	2.3051	5.1968	0.7736	2.1571	2.9307						8,747.2206
2020	13.9535	38.7014	48.8257	0.0971	2.8918	2.0392	4.9310	0.7736	1.9078	2.6814						8,534.5640
2021	9.5243	1.6583	3.4706	8.1900e-003	0.4024	0.0975	0.4999	0.1067	0.0973	0.2040						654.7116
Total	**169.1523**	**1,205.8051**	**1,532.5600**	**1.2500**	**131.8965**	**47.6546**	**179.2940**	**64.8098**	**43.9741**	**108.7157**						**123,735.3127**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	21.7688	170.8216	404.7284	0.3137	18.3052	4.8466	23.1518	8.7021	4.8201	13.5222						32,339.4314
2016	19.4789	166.6944	383.6241	0.3130	16.4814	4.7617	21.2431	8.2544	4.7428	12.9973						31,961.6073
2017	18.0758	164.1156	370.9339	0.3127	17.1036	4.7374	21.8410	8.4072	4.7211	13.1282						31,444.4852
2018	11.7001	39.4630	63.1669	0.1083	2.8917	2.2148	4.8494	0.7735	2.2082	2.9136						10,053.2925
2019	11.6131	31.2794	53.3659	0.0971	2.8918	1.6767	4.5684	0.7736	1.6703	2.4438						8,747.2206
2020	11.5497	30.7447	52.4091	0.0971	2.8918	1.6713	4.5631	0.7736	1.6653	2.4389						8,534.5640
2021	9.3648	1.4885	3.4854	8.1900e-003	0.4024	0.0985	0.5009	0.1067	0.0982	0.2050						654.7116
Total	**103.5513**	**604.6070**	**1,331.7137**	**1.2500**	**60.9679**	**20.0069**	**80.7177**	**27.7911**	**19.9260**	**47.6489**						**123,735.3127**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**38.78**	**49.86**	**13.11**	**0.00**	**53.78**	**58.02**	**54.98**	**57.12**	**54.69**	**56.17**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	151.3189	3.7767	290.8233	0.3996		38.1923	38.1923		38.1863	38.1863						14,066.2302
Energy	0.4423	3.7825	1.6274	0.0241		0.3056	0.3056		0.3056	0.3056						4,854.8148
Mobile	12.8153	31.1703	146.1641	0.5641	36.3929	0.7448	37.1377	9.7353	0.6872	10.4225						41,979.7103
Total	**164.5765**	**38.7295**	**438.6148**	**0.9878**	**36.3929**	**39.2426**	**75.6356**	**9.7353**	**39.1791**	**48.9144**						**60,900.7552**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	21.0870	0.4725	41.0103	2.1700e-003		0.2273	0.2273		0.2273	0.2273						75.3734
Energy	0.3535	3.0232	1.3009	0.0193		0.2443	0.2443		0.2443	0.2443						3,880.1651
Mobile	12.8153	31.1703	146.1641	0.5641	36.3929	0.7448	37.1377	9.7353	0.6872	10.4225						41,979.7103
Total	**34.2558**	**34.6659**	**188.4753**	**0.5855**	**36.3929**	**1.2163**	**37.6092**	**9.7353**	**1.1587**	**10.8940**						**45,935.2488**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**79.19**	**10.49**	**57.03**	**40.72**	**0.00**	**96.90**	**50.28**	**0.00**	**97.04**	**77.73**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**24.57**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2015	6/30/2017	5	457	
2	Trenching	Trenching	7/1/2017	1/1/2018	5	131	
3	Building	Building Construction	11/1/2017	1/31/2020	5	588	
4	Paving	Paving	11/1/2017	6/30/2020	5	695	
5	Coatings	Architectural Coating	2/1/2018	1/31/2021	5	782	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 300

Acres of Paving: 0

Residential Indoor: 1,811,565; Residential Outdoor: 603,855; Non-Residential Indoor: 12,750; Non-Residential Outdoor: 4,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	6	8.00	255	0.40
Grading	Scrapers	12	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coatings	Air Compressors	1	6.00	78	0.48
Building	Cranes	1	7.00	226	0.29
Building	Forklifts	3	8.00	89	0.20
Trenching	Generator Sets	1	8.00	84	0.74
Trenching	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Trenching	Welders	1	8.00	46	0.45
Building	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Building	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	21	53.00	0.00	974,940.00	14.70	6.90	0.25	LD_Mix	HDT_Mix	HHDT
Coatings	1	36.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building	9	182.00	55.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					38.7588	0.0000	38.7588	20.2288	0.0000	20.2288						0.0000
Off-Road	26.0938	321.2386	213.0687	0.2436		13.8189	13.8189		12.7134	12.7134						25,749.5061
Total	**26.0938**	**321.2386**	**213.0687**	**0.2436**	**38.7588**	**13.8189**	**52.5777**	**20.2288**	**12.7134**	**32.9422**						**25,749.5061**

3.2 Grading - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	15.5291	54.3808	268.5591	0.0623	2.5969	0.2989	2.8958	0.6557	0.2729	0.9286						5,915.2643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2614	0.3286	4.0525	7.7100e-003	0.5924	5.9200e-003	0.5983	0.1571	5.4200e-003	0.1625						674.6610
Total	**15.7905**	**54.7094**	**272.6116**	**0.0700**	**3.1893**	**0.3048**	**3.4941**	**0.8129**	**0.2783**	**1.0911**						**6,589.9253**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.1159	0.0000	15.1159	7.8892	0.0000	7.8892						0.0000
Off-Road	5.9783	116.1122	132.1168	0.2436		4.5418	4.5418		4.5418	4.5418						25,749.5060
Total	**5.9783**	**116.1122**	**132.1168**	**0.2436**	**15.1159**	**4.5418**	**19.6577**	**7.8892**	**4.5418**	**12.4310**						**25,749.5060**

3.2 Grading - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	15.5291	54.3808	268.5591	0.0623	2.5969	0.2989	2.8958	0.6557	0.2729	0.9286						5,915.2643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2614	0.3286	4.0525	7.7100e-003	0.5924	5.9200e-003	0.5983	0.1571	5.4200e-003	0.1625						674.6610
Total	**15.7905**	**54.7094**	**272.6116**	**0.0700**	**3.1893**	**0.3048**	**3.4941**	**0.8129**	**0.2783**	**1.0911**						**6,589.9253**

3.2 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					38.7588	0.0000	38.7588	20.2288	0.0000	20.2288						0.0000
Off-Road	25.0885	305.3133	203.4205	0.2435		13.1023	13.1023		12.0541	12.0541						25,467.8778
Total	**25.0885**	**305.3133**	**203.4205**	**0.2435**	**38.7588**	**13.1023**	**51.8611**	**20.2288**	**12.0541**	**32.2829**						**25,467.8778**

3.2 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	13.2646	50.2851	247.8308	0.0618	0.7731	0.2143	0.9873	0.2081	0.1959	0.4040						5,841.6036
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2361	0.2971	3.6766	7.7100e-003	0.5924	5.6000e-003	0.5980	0.1571	5.1500e-003	0.1623						652.1259
Total	**13.5006**	**50.5822**	**251.5074**	**0.0695**	**1.3655**	**0.2199**	**1.5854**	**0.3652**	**0.2010**	**0.5662**						**6,493.7295**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.1159	0.0000	15.1159	7.8892	0.0000	7.8892						0.0000
Off-Road	5.9783	116.1122	132.1168	0.2435		4.5418	4.5418		4.5418	4.5418						25,467.8778
Total	**5.9783**	**116.1122**	**132.1168**	**0.2435**	**15.1159**	**4.5418**	**19.6577**	**7.8892**	**4.5418**	**12.4310**						**25,467.8778**

3.2 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	13.2646	50.2851	247.8308	0.0618	0.7731	0.2143	0.9873	0.2081	0.1959	0.4040						5,841.6036
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2361	0.2971	3.6766	7.7100e-003	0.5924	5.6000e-003	0.5980	0.1571	5.1500e-003	0.1623						652.1259
Total	**13.5006**	**50.5822**	**251.5074**	**0.0695**	**1.3655**	**0.2199**	**1.5854**	**0.3652**	**0.2010**	**0.5662**						**6,493.7295**

3.2 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					38.7588	0.0000	38.7588	20.2288	0.0000	20.2288						0.0000
Off-Road	23.7270	285.0799	190.2316	0.2435		12.1906	12.1906		11.2153	11.2153						25,078.4090
Total	**23.7270**	**285.0799**	**190.2316**	**0.2435**	**38.7588**	**12.1906**	**50.9493**	**20.2288**	**11.2153**	**31.4441**						**25,078.4090**

3.2 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	11.8854	47.7347	235.4860	0.0615	1.3953	0.1902	1.5855	0.3608	0.1743	0.5351						5,738.3835
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2121	0.2687	3.3311	7.7000e-003	0.5924	5.3700e-003	0.5978	0.1571	4.9500e-003	0.1621						627.6928
Total	**12.0975**	**48.0034**	**238.8171**	**0.0692**	**1.9877**	**0.1956**	**2.1833**	**0.5179**	**0.1793**	**0.6972**						**6,366.0763**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					15.1159	0.0000	15.1159	7.8892	0.0000	7.8892						0.0000
Off-Road	5.9783	116.1122	132.1168	0.2435		4.5418	4.5418		4.5418	4.5418						25,078.4089
Total	**5.9783**	**116.1122**	**132.1168**	**0.2435**	**15.1159**	**4.5418**	**19.6577**	**7.8892**	**4.5418**	**12.4310**						**25,078.4089**

3.2 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	11.8854	47.7347	235.4860	0.0615	1.3953	0.1902	1.5855	0.3608	0.1743	0.5351						5,738.3835
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.2121	0.2687	3.3311	7.7000e-003	0.5924	5.3700e-003	0.5978	0.1571	4.9500e-003	0.1621						627.6928
Total	**12.0975**	**48.0034**	**238.8171**	**0.0692**	**1.9877**	**0.1956**	**2.1833**	**0.5179**	**0.1793**	**0.6972**						**6,366.0763**

3.3 Trenching - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9026	14.1951	11.9700	0.0173		1.0291	1.0291		0.9810	0.9810						1,673.3354
Total	**1.9026**	**14.1951**	**11.9700**	**0.0173**		**1.0291**	**1.0291**		**0.9810**	**0.9810**						**1,673.3354**

3.3 Trenching - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398						153.9624
Total	**0.0520**	**0.0659**	**0.8171**	**1.8900e-003**	**0.1453**	**1.3200e-003**	**0.1466**	**0.0385**	**1.2100e-003**	**0.0398**						**153.9624**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4368	9.2470	11.7011	0.0173		0.6317	0.6317		0.6317	0.6317						1,673.3354
Total	**0.4368**	**9.2470**	**11.7011**	**0.0173**		**0.6317**	**0.6317**		**0.6317**	**0.6317**						**1,673.3354**

3.3 Trenching - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0520	0.0659	0.8171	1.8900e-003	0.1453	1.3200e-003	0.1466	0.0385	1.2100e-003	0.0398						153.9624
Total	**0.0520**	**0.0659**	**0.8171**	**1.8900e-003**	**0.1453**	**1.3200e-003**	**0.1466**	**0.0385**	**1.2100e-003**	**0.0398**						**153.9624**

3.3 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6457	12.6984	11.7401	0.0173		0.8646	0.8646		0.8255	0.8255						1,658.6964
Total	**1.6457**	**12.6984**	**11.7401**	**0.0173**		**0.8646**	**0.8646**		**0.8255**	**0.8255**						**1,658.6964**

3.3 Trenching - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0468	0.0598	0.7424	1.8900e-003	0.1453	1.2700e-003	0.1466	0.0385	1.1800e-003	0.0397						148.3225
Total	**0.0468**	**0.0598**	**0.7424**	**1.8900e-003**	**0.1453**	**1.2700e-003**	**0.1466**	**0.0385**	**1.1800e-003**	**0.0397**						**148.3225**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4368	9.2470	11.7011	0.0173		0.6317	0.6317		0.6317	0.6317						1,658.6964
Total	**0.4368**	**9.2470**	**11.7011**	**0.0173**		**0.6317**	**0.6317**		**0.6317**	**0.6317**						**1,658.6964**

3.3 Trenching - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0468	0.0598	0.7424	1.8900e-003	0.1453	1.2700e-003	0.1466	0.0385	1.1800e-003	0.0397						148.3225
Total	**0.0468**	**0.0598**	**0.7424**	**1.8900e-003**	**0.1453**	**1.2700e-003**	**0.1466**	**0.0385**	**1.1800e-003**	**0.0397**						**148.3225**

3.4 Building - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730						2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**						**2,653.4490**

3.4 Building - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.4237	4.3876	5.2499	0.0121	0.3432	0.0670	0.4102	0.0977	0.0617	0.1593						1,192.0523
Worker	0.7285	0.9227	11.4390	0.0265	2.0343	0.0184	2.0528	0.5395	0.0170	0.5565						2,155.4734
Total	**1.1522**	**5.3103**	**16.6889**	**0.0385**	**2.3775**	**0.0855**	**2.4629**	**0.6372**	**0.0786**	**0.7158**						**3,347.5257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016						2,653.4490
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**						**2,653.4490**

3.4 Building - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.4237	4.3876	5.2499	0.0121	0.3432	0.0670	0.4102	0.0977	0.0617	0.1593						1,192.0523
Worker	0.7285	0.9227	11.4390	0.0265	2.0343	0.0184	2.0528	0.5395	0.0170	0.5565						2,155.4734
Total	**1.1522**	**5.3103**	**16.6889**	**0.0385**	**2.3775**	**0.0855**	**2.4629**	**0.6372**	**0.0786**	**0.7158**						**3,347.5257**

3.4 Building - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048						2,623.3517
Total	**2.6687**	**23.2608**	**17.5327**	**0.0268**		**1.4943**	**1.4943**		**1.4048**	**1.4048**						**2,623.3517**

3.4 Building - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3992	4.0340	5.0149	0.0121	0.3432	0.0632	0.4063	0.0977	0.0581	0.1558						1,172.3654
Worker	0.6558	0.8375	10.3941	0.0264	2.0343	0.0179	2.0522	0.5395	0.0165	0.5560						2,076.5143
Total	**1.0550**	**4.8715**	**15.4090**	**0.0385**	**2.3775**	**0.0810**	**2.4585**	**0.6372**	**0.0746**	**0.7118**						**3,248.8797**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016						2,623.3517
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**						**2,623.3517**

3.4 Building - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3992	4.0340	5.0149	0.0121	0.3432	0.0632	0.4063	0.0977	0.0581	0.1558						1,172.3654
Worker	0.6558	0.8375	10.3941	0.0264	2.0343	0.0179	2.0522	0.5395	0.0165	0.5560						2,076.5143
Total	**1.0550**	**4.8715**	**15.4090**	**0.0385**	**2.3775**	**0.0810**	**2.4585**	**0.6372**	**0.0746**	**0.7118**						**3,248.8797**

3.4 Building - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3516	20.9650	17.1204	0.0268		1.2850	1.2850		1.2083	1.2083						2,593.9479
Total	**2.3516**	**20.9650**	**17.1204**	**0.0268**		**1.2850**	**1.2850**		**1.2083**	**1.2083**						**2,593.9479**

3.4 Building - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3789	3.7219	4.8332	0.0120	0.3433	0.0600	0.4033	0.0977	0.0552	0.1529						1,148.3218
Worker	0.6026	0.7679	9.5447	0.0263	2.0343	0.0174	2.0517	0.5395	0.0161	0.5557						1,995.0981
Total	**0.9815**	**4.4897**	**14.3779**	**0.0383**	**2.3776**	**0.0774**	**2.4550**	**0.6372**	**0.0714**	**0.7086**						**3,143.4200**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016						2,593.9479
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**						**2,593.9479**

3.4 Building - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3789	3.7219	4.8332	0.0120	0.3433	0.0600	0.4033	0.0977	0.0552	0.1529						1,148.3218
Worker	0.6026	0.7679	9.5447	0.0263	2.0343	0.0174	2.0517	0.5395	0.0161	0.5557						1,995.0981
Total	**0.9815**	**4.4897**	**14.3779**	**0.0383**	**2.3776**	**0.0774**	**2.4550**	**0.6372**	**0.0714**	**0.7086**						**3,143.4200**

3.4 Building - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465						2,555.4880
Total	**2.1113**	**19.0839**	**16.8084**	**0.0268**		**1.1128**	**1.1128**		**1.0465**	**1.0465**						**2,555.4880**

3.4 Building - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3624	3.2572	4.6889	0.0120	0.3433	0.0548	0.3982	0.0977	0.0505	0.1482						1,122.7486
Worker	0.5651	0.7119	8.8961	0.0263	2.0343	0.0172	2.0516	0.5395	0.0160	0.5555						1,914.9825
Total	**0.9275**	**3.9692**	**13.5850**	**0.0383**	**2.3776**	**0.0721**	**2.4497**	**0.6372**	**0.0664**	**0.7037**						**3,037.7312**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6712	14.1741	17.8156	0.0268		0.9016	0.9016		0.9016	0.9016						2,555.4880
Total	**0.6712**	**14.1741**	**17.8156**	**0.0268**		**0.9016**	**0.9016**		**0.9016**	**0.9016**						**2,555.4880**

3.4 Building - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.3624	3.2572	4.6889	0.0120	0.3433	0.0548	0.3982	0.0977	0.0505	0.1482						1,122.7486
Worker	0.5651	0.7119	8.8961	0.0263	2.0343	0.0172	2.0516	0.5395	0.0160	0.5555						1,914.9825
Total	**0.9275**	**3.9692**	**13.5850**	**0.0383**	**2.3776**	**0.0721**	**2.4497**	**0.6372**	**0.0664**	**0.7037**						**3,037.7312**

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473						2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.9074**	**20.2964**	**14.7270**	**0.0223**		**1.1384**	**1.1384**		**1.0473**	**1.0473**						**2,295.7360**

3.5 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0400	0.0507	0.6285	1.4500e-003	0.1118	1.0100e-003	0.1128	0.0296	9.3000e-004	0.0306						118.4326
Total	**0.0400**	**0.0507**	**0.6285**	**1.4500e-003**	**0.1118**	**1.0100e-003**	**0.1128**	**0.0296**	**9.3000e-004**	**0.0306**						**118.4326**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982						2,295.7360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**						**2,295.7360**

3.5 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0400	0.0507	0.6285	1.4500e-003	0.1118	1.0100e-003	0.1128	0.0296	9.3000e-004	0.0306						118.4326
Total	**0.0400**	**0.0507**	**0.6285**	**1.4500e-003**	**0.1118**	**1.0100e-003**	**0.1128**	**0.0296**	**9.3000e-004**	**0.0306**						**118.4326**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6114	17.1628	14.4944	0.0223		0.9386	0.9386		0.8635	0.8635						2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.6114**	**17.1628**	**14.4944**	**0.0223**		**0.9386**	**0.9386**		**0.8635**	**0.8635**						**2,259.9481**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.1118	9.8000e-004	0.1128	0.0296	9.1000e-004	0.0306						114.0942
Total	**0.0360**	**0.0460**	**0.5711**	**1.4500e-003**	**0.1118**	**9.8000e-004**	**0.1128**	**0.0296**	**9.1000e-004**	**0.0306**						**114.0942**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982						2,259.9481
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**						**2,259.9481**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.1118	9.8000e-004	0.1128	0.0296	9.1000e-004	0.0306						114.0942
Total	**0.0360**	**0.0460**	**0.5711**	**1.4500e-003**	**0.1118**	**9.8000e-004**	**0.1128**	**0.0296**	**9.1000e-004**	**0.0306**						**114.0942**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4259	14.9353	14.3652	0.0223		0.8094	0.8094		0.7447	0.7447						2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.4259**	**14.9353**	**14.3652**	**0.0223**		**0.8094**	**0.8094**		**0.7447**	**0.7447**						**2,223.6499**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0331	0.0422	0.5244	1.4500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305						109.6208
Total	**0.0331**	**0.0422**	**0.5244**	**1.4500e-003**	**0.1118**	**9.6000e-004**	**0.1127**	**0.0296**	**8.9000e-004**	**0.0305**						**109.6208**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982						2,223.6499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**						**2,223.6499**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0331	0.0422	0.5244	1.4500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305						109.6208
Total	**0.0331**	**0.0422**	**0.5244**	**1.4500e-003**	**0.1118**	**9.6000e-004**	**0.1127**	**0.0296**	**8.9000e-004**	**0.0305**						**109.6208**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799						2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.3301**	**13.7845**	**14.3523**	**0.0223**		**0.7390**	**0.7390**		**0.6799**	**0.6799**						**2,175.4326**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0311	0.0391	0.4888	1.4500e-003	0.1118	9.5000e-004	0.1127	0.0296	8.8000e-004	0.0305						105.2188
Total	**0.0311**	**0.0391**	**0.4888**	**1.4500e-003**	**0.1118**	**9.5000e-004**	**0.1127**	**0.0296**	**8.8000e-004**	**0.0305**						**105.2188**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5490	11.0645	16.9276	0.0223		0.5982	0.5982		0.5982	0.5982						2,175.4326
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.5490**	**11.0645**	**16.9276**	**0.0223**		**0.5982**	**0.5982**		**0.5982**	**0.5982**						**2,175.4326**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0311	0.0391	0.4888	1.4500e-003	0.1118	9.5000e-004	0.1127	0.0296	8.8000e-004	0.0305						105.2188
Total	**0.0311**	**0.0391**	**0.4888**	**1.4500e-003**	**0.1118**	**9.5000e-004**	**0.1127**	**0.0296**	**8.8000e-004**	**0.0305**						**105.2188**

3.6 Coatings - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506						282.0102
Total	**9.4983**	**2.0058**	**1.8542**	**2.9700e-003**		**0.1506**	**0.1506**		**0.1506**	**0.1506**						**282.0102**

3.6 Coatings - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1297	0.1657	2.0560	5.2300e-003	0.4024	3.5300e-003	0.4059	0.1067	3.2700e-003	0.1100						410.7391
Total	**0.1297**	**0.1657**	**2.0560**	**5.2300e-003**	**0.4024**	**3.5300e-003**	**0.4059**	**0.1067**	**3.2700e-003**	**0.1100**						**410.7391**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						282.0102
Total	**9.2591**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**282.0102**

3.6 Coatings - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1297	0.1657	2.0560	5.2300e-003	0.4024	3.5300e-003	0.4059	0.1067	3.2700e-003	0.1100						410.7391
Total	**0.1297**	**0.1657**	**2.0560**	**5.2300e-003**	**0.4024**	**3.5300e-003**	**0.4059**	**0.1067**	**3.2700e-003**	**0.1100**						**410.7391**

3.6 Coatings - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288						281.9473
Total	**9.4661**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**						**281.9473**

3.6 Coatings - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1192	0.1519	1.8880	5.2100e-003	0.4024	3.4400e-003	0.4058	0.1067	3.1900e-003	0.1099						394.6348
Total	**0.1192**	**0.1519**	**1.8880**	**5.2100e-003**	**0.4024**	**3.4400e-003**	**0.4058**	**0.1067**	**3.1900e-003**	**0.1099**						**394.6348**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						281.9473
Total	**9.2591**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**281.9473**

3.6 Coatings - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1192	0.1519	1.8880	5.2100e-003	0.4024	3.4400e-003	0.4058	0.1067	3.1900e-003	0.1099						394.6348
Total	**0.1192**	**0.1519**	**1.8880**	**5.2100e-003**	**0.4024**	**3.4400e-003**	**0.4058**	**0.1067**	**3.1900e-003**	**0.1099**						**394.6348**

3.6 Coatings - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109						281.9057
Total	**9.4419**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**						**281.9057**

3.6 Coatings - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1118	0.1408	1.7597	5.2100e-003	0.4024	3.4100e-003	0.4058	0.1067	3.1600e-003	0.1099						378.7878
Total	**0.1118**	**0.1408**	**1.7597**	**5.2100e-003**	**0.4024**	**3.4100e-003**	**0.4058**	**0.1067**	**3.1600e-003**	**0.1099**						**378.7878**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						281.9057
Total	**9.2591**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**281.9057**

3.6 Coatings - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1118	0.1408	1.7597	5.2100e-003	0.4024	3.4100e-003	0.4058	0.1067	3.1600e-003	0.1099						378.7878
Total	**0.1118**	**0.1408**	**1.7597**	**5.2100e-003**	**0.4024**	**3.4100e-003**	**0.4058**	**0.1067**	**3.1600e-003**	**0.1099**						**378.7878**

3.6 Coatings - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941						281.8537
Total	**9.4186**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**						**281.8537**

3.6 Coatings - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1057	0.1315	1.6530	5.2200e-003	0.4024	3.4000e-003	0.4058	0.1067	3.1500e-003	0.1099						372.8580
Total	**0.1057**	**0.1315**	**1.6530**	**5.2200e-003**	**0.4024**	**3.4000e-003**	**0.4058**	**0.1067**	**3.1500e-003**	**0.1099**						**372.8580**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.1997					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951						281.8537
Total	**9.2591**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**						**281.8537**

3.6 Coatings - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.1057	0.1315	1.6530	5.2200e-003	0.4024	3.4000e-003	0.4058	0.1067	3.1500e-003	0.1099						372.8580
Total	**0.1057**	**0.1315**	**1.6530**	**5.2200e-003**	**0.4024**	**3.4000e-003**	**0.4058**	**0.1067**	**3.1500e-003**	**0.1099**						**372.8580**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.8153	31.1703	146.1641	0.5641	36.3929	0.7448	37.1377	9.7353	0.6872	10.4225						41,979.7103
Unmitigated	12.8153	31.1703	146.1641	0.5641	36.3929	0.7448	37.1377	9.7353	0.6872	10.4225						41,979.7103

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Single Family Housing	4,756.29	5,009.76	4358.69	16,182,606	16,182,606
User Defined Recreational	0.00	0.00	0.00		
Total	4,756.29	5,009.76	4,358.69	16,182,606	16,182,606

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
User Defined Recreational	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.520397	0.057988	0.180404	0.127035	0.040743	0.006604	0.017532	0.037311	0.002617	0.003209	0.003763	0.000522	0.001873

4.4 Fleet Mix

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.3535	3.0232	1.3009	0.0193		0.2443	0.2443		0.2443	0.2443						3,880.1651
NaturalGas Unmitigated	0.4423	3.7825	1.6274	0.0241		0.3056	0.3056		0.3056	0.3056						4,854.8148

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Health Club	438.041	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003						51.8479
Single Family Housing	40578.3	0.4376	3.7396	1.5913	0.0239		0.3024	0.3024		0.3024	0.3024						4,802.9669
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**0.4423**	**3.7825**	**1.6274**	**0.0241**		**0.3056**	**0.3056**		**0.3056**	**0.3056**						**4,854.8148**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Health Club	0.354438	3.8200e-003	0.0348	0.0292	2.1000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003						41.9524
Single Family Housing	32.4275	0.3497	2.9884	1.2717	0.0191		0.2416	0.2416		0.2416	0.2416						3,838.2127
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**0.3535**	**3.0232**	**1.3009**	**0.0193**		**0.2443**	**0.2443**		**0.2443**	**0.2443**						**3,880.1651**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	21.0870	0.4725	41.0103	2.1700e-003		0.2273	0.2273		0.2273	0.2273						75.3734
Unmitigated	151.3189	3.7767	290.8233	0.3996		38.1923	38.1923		38.1863	38.1863						14,066.2302

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9710					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	17.8814					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	130.2319	3.3043	249.8130	0.3974		37.9650	37.9650		37.9590	37.9590						13,990.8567
Landscaping	1.2346	0.4725	41.0103	2.1700e-003		0.2273	0.2273		0.2273	0.2273						75.3734
Total	**151.3189**	**3.7767**	**290.8233**	**0.3996**		**38.1923**	**38.1923**		**38.1863**	**38.1863**						**14,066.2302**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9710					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	17.8814					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	1.2346	0.4725	41.0103	2.1700e-003		0.2273	0.2273		0.2273	0.2273						75.3734
Total	**21.0870**	**0.4725**	**41.0103**	**2.1700e-003**		**0.2273**	**0.2273**		**0.2273**	**0.2273**						**75.3734**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Los Valles AQ

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	7.93	Acre	7.93	0.00	0
Health Club	8.50	1000sqft	0.20	8,500.00	0
User Defined Recreational	223.15	User Defined Unit	223.15	0.00	0
Single Family Housing	497.00	Dwelling Unit	161.36	894,600.00	1421

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	501.88	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Including 33% RPS

Land Use - Based on Project Description "User Defined Recreational" is same as on-site "Open Spaces".

Construction Phase - grading 10/1/2015 to 6/30/17 trenching 7/1/17 to 1/1/18 building 11/1/17 to 1/31/20 paving 11/1/17 to 6/30/20 coatings 2/1/18 to 1/31/2021

Off-road Equipment - Fleet provided by client.

Off-road Equipment -

Off-road Equipment - Fleet provided by client.

Off-road Equipment -

Off-road Equipment - Fleet provided by client.

Off-road Equipment - Fleet provided by client.

Trips and VMT - Assume haul trip length during grading = 0.25 miles to reflect cut and fill balance on site. 10 haul trips during paving.

Grading - Assume approximately 300 acres graded, 7,799,517 cy of cut/fill balanced on site.

Architectural Coating -

Vehicle Trips - Based on Traffic Study - trips associated with single family homes only

Vechicle Emission Factors -

Vechicle Emission Factors -

Vechicle Emission Factors -

Woodstoves - Per SCAQMD rule 445, wood burning fire places are not allowed

Landscape Equipment -

Energy Use - Title 24 2008

Water And Wastewater - Based on Water Supply Assessment

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Assume watering 3x per day per SCAQMD guidelines, Tier 3 Engines

Energy Mitigation - Exceed Title 24 2008 by 25% to meet Title 24 2013 requirements
75% Reduction for energy efficient lighting

Waste Mitigation - 75% waste diversion based on 2020 State goal.

Area Mitigation - no hearths

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	440.00	695.00
tblConstructionPhase	NumDays	620.00	457.00

tblConstructionPhase	NumDays	6,200.00	588.00
tblConstructionPhase	NumDays	440.00	782.00
tblConstructionPhase	PhaseEndDate	9/30/2022	6/30/2020
tblConstructionPhase	PhaseEndDate	4/2/2020	1/31/2020
tblConstructionPhase	PhaseEndDate	6/29/2023	1/31/2021
tblConstructionPhase	PhaseStartDate	2/1/2020	11/1/2017
tblConstructionPhase	PhaseStartDate	1/2/2018	11/1/2017
tblConstructionPhase	PhaseStartDate	7/1/2020	2/1/2018
tblGrading	AcresOfGrading	5,484.00	300.00
tblGrading	MaterialExported	0.00	3,899,759.00
tblGrading	MaterialImported	0.00	3,899,759.00
tblLandUse	LandUseSquareFeet	345,430.80	0.00
tblLandUse	LotAcreage	0.00	223.15
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	12.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	501.88
tblProjectCharacteristics	OperationalYear	2014	2024
tblSequestration	NumberOfNewTrees	0.00	6,320.00
tblTripsAndVMT	HaulingTripLength	20.00	0.25
tblTripsAndVMT	WorkerTripNumber	15.00	10.00
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	1.59	0.00
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	1.4420	12.4267	17.8072	0.0103	8.9594	0.4666	9.4261	4.6486	0.4292	5.0778						962.5479
2016	5.2338	46.5207	66.4296	0.0407	9.0312	1.7397	10.7710	4.6691	1.6004	6.2695						3,761.9714
2017	2.6748	23.7412	33.3393	0.0234	9.0448	0.9372	9.9820	4.6719	0.8652	5.5370						2,113.1014
2018	1.8479	6.2239	6.7775	0.0124	0.3656	0.3470	0.7126	0.0980	0.3246	0.4226						1,038.9153
2019	1.8764	5.5744	6.5817	0.0125	0.3701	0.3008	0.6709	0.0992	0.2815	0.3807						1,022.9312
2020	1.3745	1.4083	1.7764	3.3200e-003	0.0856	0.0767	0.1623	0.0228	0.0720	0.0948						268.3836
2021	0.1000	0.0176	0.0355	8.0000e-005	4.1400e-003	1.0200e-003	5.1700e-003	1.1000e-003	1.0200e-003	2.1200e-003						6.0902
Total	**14.5494**	**95.9128**	**132.7472**	**0.1027**	**27.8609**	**3.8691**	**31.7300**	**14.2106**	**3.5739**	**17.7845**						**9,173.9410**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	0.7782	5.6575	15.1358	0.0103	3.5570	0.1605	3.7175	1.8290	0.1596	1.9885						962.5470
2016	2.7399	21.8300	57.1244	0.0407	3.6289	0.6226	4.2514	1.8495	0.6200	2.4696						3,761.9678
2017	1.3444	11.9752	29.5849	0.0234	3.6424	0.3837	4.0261	1.8523	0.3824	2.2347						2,113.0994
2018	1.4195	4.1633	7.1294	0.0124	0.3656	0.2185	0.5841	0.0980	0.2176	0.3156						1,038.9145
2019	1.5157	4.1206	7.0056	0.0125	0.3701	0.2188	0.5889	0.0992	0.2180	0.3172						1,022.9305
2020	1.2832	1.1322	1.9556	3.3200e-003	0.0856	0.0631	0.1487	0.0228	0.0629	0.0858						268.3834
2021	0.0983	0.0158	0.0357	8.0000e-005	4.1400e-003	1.0300e-003	5.1800e-003	1.1000e-003	1.0300e-003	2.1300e-003						6.0902
Total	**9.1792**	**48.8947**	**117.9713**	**0.1027**	**11.6537**	**1.6682**	**13.3219**	**5.7518**	**1.6616**	**7.4135**						**9,173.9328**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**36.91**	**49.02**	**11.13**	**0.00**	**58.17**	**56.89**	**58.01**	**59.52**	**53.51**	**58.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.4053	0.1004	8.2490	5.2400e-003		0.5030	0.5030		0.5029	0.5029						167.2009
Energy	0.0807	0.6903	0.2970	4.4000e-003		0.0558	0.0558		0.0558	0.0558						1,656.6001
Mobile	2.1856	5.7593	25.3234	0.0938	6.1403	0.1281	6.2684	1.6452	0.1182	1.7635						6,347.1351
Waste						0.0000	0.0000		0.0000	0.0000						287.3885
Water						0.0000	0.0000		0.0000	0.0000						215.4172
Total	**7.6716**	**6.5500**	**33.8694**	**0.1034**	**6.1403**	**0.6869**	**6.8272**	**1.6452**	**0.6769**	**2.3221**						**8,673.7418**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.7774	0.0591	5.1263	2.7000e-004		0.0284	0.0284		0.0284	0.0284						8.5472
Energy	0.0645	0.5517	0.2374	3.5200e-003		0.0446	0.0446		0.0446	0.0446						1,308.2347
Mobile	2.1856	5.7593	25.3234	0.0938	6.1403	0.1281	6.2684	1.6452	0.1182	1.7635						6,347.1351
Waste						0.0000	0.0000		0.0000	0.0000						71.8471
Water						0.0000	0.0000		0.0000	0.0000						215.4006
Total	**6.0275**	**6.3701**	**30.6871**	**0.0976**	**6.1403**	**0.2011**	**6.3414**	**1.6452**	**0.1912**	**1.8364**						**7,951.1647**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**21.43**	**2.75**	**9.40**	**5.66**	**0.00**	**70.72**	**7.11**	**0.00**	**71.75**	**20.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**8.33**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	4,474.5600
Vegetation Land Change	6,969.1610
Total	**11,443.7210**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	10/1/2015	6/30/2017	5	457	
2	Trenching	Trenching	7/1/2017	1/1/2018	5	131	
3	Building	Building Construction	11/1/2017	1/31/2020	5	588	
4	Paving	Paving	11/1/2017	6/30/2020	5	695	
5	Coatings	Architectural Coating	2/1/2018	1/31/2021	5	782	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 300

Acres of Paving: 0

Residential Indoor: 1,811,565; Residential Outdoor: 603,855; Non-Residential Indoor: 12,750; Non-Residential Outdoor: 4,250 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	8.00	174	0.41
Grading	Rubber Tired Dozers	6	8.00	255	0.40
Grading	Scrapers	12	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Coatings	Air Compressors	1	6.00	78	0.48
Building	Cranes	1	7.00	226	0.29
Building	Forklifts	3	8.00	89	0.20
Trenching	Generator Sets	1	8.00	84	0.74
Trenching	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Trenching	Welders	1	8.00	46	0.45
Building	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Building	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	21	53.00	0.00	974,940.00	14.70	6.90	0.25	LD_Mix	HDT_Mix	HHDT
Coatings	1	36.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building	9	182.00	55.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Clean Paved Roads

3.2 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8564	0.0000	8.8564	4.6223	0.0000	4.6223						0.0000
Off-Road	0.8611	10.6009	7.0313	8.0400e-003		0.4560	0.4560		0.4195	0.4195						770.8655
Total	**0.8611**	**10.6009**	**7.0313**	**8.0400e-003**	**8.8564**	**0.4560**	**9.3124**	**4.6223**	**0.4195**	**5.0418**						**770.8655**

3.2 Grading - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.5724	1.8135	10.6474	2.0300e-003	0.0839	0.0104	0.0943	0.0212	9.5100e-003	0.0307						172.3108
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4800e-003	0.0123	0.1286	2.4000e-004	0.0192	2.0000e-004	0.0194	5.0900e-003	1.8000e-004	5.2700e-003						19.3717
Total	**0.5809**	**1.8258**	**10.7759**	**2.2700e-003**	**0.1031**	**0.0106**	**0.1136**	**0.0263**	**9.6900e-003**	**0.0360**						**191.6825**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4540	0.0000	3.4540	1.8027	0.0000	1.8027						0.0000
Off-Road	0.1973	3.8317	4.3599	8.0400e-003		0.1499	0.1499		0.1499	0.1499						770.8645
Total	**0.1973**	**3.8317**	**4.3599**	**8.0400e-003**	**3.4540**	**0.1499**	**3.6039**	**1.8027**	**0.1499**	**1.9526**						**770.8645**

3.2 Grading - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.5724	1.8135	10.6474	2.0300e-003	0.0839	0.0104	0.0943	0.0212	9.5100e-003	0.0307						172.3108
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4800e-003	0.0123	0.1286	2.4000e-004	0.0192	2.0000e-004	0.0194	5.0900e-003	1.8000e-004	5.2700e-003						19.3717
Total	**0.5809**	**1.8258**	**10.7759**	**2.2700e-003**	**0.1031**	**0.0106**	**0.1136**	**0.0263**	**9.6900e-003**	**0.0360**						**191.6825**

3.2 Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8564	0.0000	8.8564	4.6223	0.0000	4.6223						0.0000
Off-Road	3.2741	39.8434	26.5464	0.0318		1.7099	1.7099		1.5731	1.5731						3,015.0812
Total	**3.2741**	**39.8434**	**26.5464**	**0.0318**	**8.8564**	**1.7099**	**10.5662**	**4.6223**	**1.5731**	**6.1953**						**3,015.0812**

3.2 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9295	6.6332	39.4232	7.9700e-003	0.0991	0.0291	0.1282	0.0267	0.0267	0.0534						672.8454
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0302	0.0441	0.4600	9.6000e-004	0.0758	7.3000e-004	0.0765	0.0201	6.7000e-004	0.0208						74.0449
Total	**1.9597**	**6.6773**	**39.8832**	**8.9300e-003**	**0.1749**	**0.0299**	**0.2047**	**0.0468**	**0.0273**	**0.0742**						**746.8902**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4540	0.0000	3.4540	1.8027	0.0000	1.8027						0.0000
Off-Road	0.7802	15.1526	17.2412	0.0318		0.5927	0.5927		0.5927	0.5927						3,015.0776
Total	**0.7802**	**15.1526**	**17.2412**	**0.0318**	**3.4540**	**0.5927**	**4.0467**	**1.8027**	**0.5927**	**2.3954**						**3,015.0776**

3.2 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9295	6.6332	39.4232	7.9700e-003	0.0991	0.0291	0.1282	0.0267	0.0267	0.0534						672.8454
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0302	0.0441	0.4600	9.6000e-004	0.0758	7.3000e-004	0.0765	0.0201	6.7000e-004	0.0208						74.0449
Total	**1.9597**	**6.6773**	**39.8832**	**8.9300e-003**	**0.1749**	**0.0299**	**0.2047**	**0.0468**	**0.0273**	**0.0742**						**746.8902**

3.2 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8564	0.0000	8.8564	4.6223	0.0000	4.6223						0.0000
Off-Road	1.5423	18.5302	12.3651	0.0158		0.7924	0.7924		0.7290	0.7290						1,478.7987
Total	**1.5423**	**18.5302**	**12.3651**	**0.0158**	**8.8564**	**0.7924**	**9.6488**	**4.6223**	**0.7290**	**5.3513**						**1,478.7987**

3.2 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.8585	3.1371	18.8510	3.9500e-003	0.0889	0.0129	0.1017	0.0230	0.0118	0.0348						329.1928
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0135	0.0199	0.2070	4.8000e-004	0.0378	3.5000e-004	0.0381	0.0100	3.2000e-004	0.0104						35.4968
Total	**0.8720**	**3.1570**	**19.0580**	**4.4300e-003**	**0.1266**	**0.0132**	**0.1398**	**0.0330**	**0.0121**	**0.0452**						**364.6896**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4540	0.0000	3.4540	1.8027	0.0000	1.8027						0.0000
Off-Road	0.3886	7.5473	8.5876	0.0158		0.2952	0.2952		0.2952	0.2952						1,478.7970
Total	**0.3886**	**7.5473**	**8.5876**	**0.0158**	**3.4540**	**0.2952**	**3.7492**	**1.8027**	**0.2952**	**2.0979**						**1,478.7970**

3.2 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.8585	3.1371	18.8510	3.9500e-003	0.0889	0.0129	0.1017	0.0230	0.0118	0.0348						329.1928
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0135	0.0199	0.2070	4.8000e-004	0.0378	3.5000e-004	0.0381	0.0100	3.2000e-004	0.0104						35.4968
Total	**0.8720**	**3.1570**	**19.0580**	**4.4300e-003**	**0.1266**	**0.0132**	**0.1398**	**0.0330**	**0.0121**	**0.0452**						**364.6896**

3.3 Trenching - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1237	0.9227	0.7781	1.1200e-003		0.0669	0.0669		0.0638	0.0638						98.6716
Total	**0.1237**	**0.9227**	**0.7781**	**1.1200e-003**		**0.0669**	**0.0669**		**0.0638**	**0.0638**						**98.6716**

3.3 Trenching - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.3100e-003	4.8800e-003	0.0508	1.2000e-004	9.2600e-003	9.0000e-005	9.3500e-003	2.4600e-003	8.0000e-005	2.5400e-003						8.7068
Total	**3.3100e-003**	**4.8800e-003**	**0.0508**	**1.2000e-004**	**9.2600e-003**	**9.0000e-005**	**9.3500e-003**	**2.4600e-003**	**8.0000e-005**	**2.5400e-003**						**8.7068**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0284	0.6011	0.7606	1.1200e-003		0.0411	0.0411		0.0411	0.0411						98.6715
Total	**0.0284**	**0.6011**	**0.7606**	**1.1200e-003**		**0.0411**	**0.0411**		**0.0411**	**0.0411**						**98.6715**

3.3 Trenching - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.3100e-003	4.8800e-003	0.0508	1.2000e-004	9.2600e-003	9.0000e-005	9.3500e-003	2.4600e-003	8.0000e-005	2.5400e-003						8.7068
Total	**3.3100e-003**	**4.8800e-003**	**0.0508**	**1.2000e-004**	**9.2600e-003**	**9.0000e-005**	**9.3500e-003**	**2.4600e-003**	**8.0000e-005**	**2.5400e-003**						**8.7068**

3.3 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.2000e-004	6.3500e-003	5.8700e-003	1.0000e-005		4.3000e-004	4.3000e-004		4.1000e-004	4.1000e-004						0.7524
Total	**8.2000e-004**	**6.3500e-003**	**5.8700e-003**	**1.0000e-005**		**4.3000e-004**	**4.3000e-004**		**4.1000e-004**	**4.1000e-004**						**0.7524**

3.3 Trenching - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	2.0000e-005	3.0000e-005	3.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005						0.0645
Total	**2.0000e-005**	**3.0000e-005**	**3.5000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**						**0.0645**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2000e-004	4.6200e-003	5.8500e-003	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004						0.7524
Total	**2.2000e-004**	**4.6200e-003**	**5.8500e-003**	**1.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**						**0.7524**

3.3 Trenching - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	2.0000e-005	3.0000e-005	3.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005						0.0645
Total	**2.0000e-005**	**3.0000e-005**	**3.5000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**						**0.0645**

3.4 Building - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0667	0.5677	0.3898	5.8000e-004		0.0383	0.0383		0.0360	0.0360						51.7541
Total	**0.0667**	**0.5677**	**0.3898**	**5.8000e-004**		**0.0383**	**0.0383**		**0.0360**	**0.0360**						**51.7541**

3.4 Building - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	9.6900e-003	0.0986	0.1330	2.6000e-004	7.2600e-003	1.4500e-003	8.7000e-003	2.0700e-003	1.3300e-003	3.4000e-003						23.1692
Worker	0.0153	0.0226	0.2351	5.5000e-004	0.0429	4.0000e-004	0.0433	0.0114	3.7000e-004	0.0118						40.3190
Total	**0.0250**	**0.1212**	**0.3681**	**8.1000e-004**	**0.0501**	**1.8500e-003**	**0.0520**	**0.0135**	**1.7000e-003**	**0.0152**						**63.4882**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0144	0.3047	0.3830	5.8000e-004		0.0194	0.0194		0.0194	0.0194						51.7541
Total	**0.0144**	**0.3047**	**0.3830**	**5.8000e-004**		**0.0194**	**0.0194**		**0.0194**	**0.0194**						**51.7541**

3.4 Building - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	9.6900e-003	0.0986	0.1330	2.6000e-004	7.2600e-003	1.4500e-003	8.7000e-003	2.0700e-003	1.3300e-003	3.4000e-003						23.1692
Worker	0.0153	0.0226	0.2351	5.5000e-004	0.0429	4.0000e-004	0.0433	0.0114	3.7000e-004	0.0118						40.3190
Total	**0.0250**	**0.1212**	**0.3681**	**8.1000e-004**	**0.0501**	**1.8500e-003**	**0.0520**	**0.0135**	**1.7000e-003**	**0.0152**						**63.4882**

3.4 Building - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3483	3.0355	2.2880	3.5000e-003		0.1950	0.1950		0.1833	0.1833						310.5723
Total	**0.3483**	**3.0355**	**2.2880**	**3.5000e-003**		**0.1950**	**0.1950**		**0.1833**	**0.1833**						**310.5723**

3.4 Building - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0553	0.5498	0.7748	1.5700e-003	0.0441	8.2700e-003	0.0523	0.0126	7.6100e-003	0.0202						138.3079
Worker	0.0833	0.1244	1.2923	3.3100e-003	0.2603	2.3300e-003	0.2626	0.0691	2.1500e-003	0.0713						235.7484
Total	**0.1386**	**0.6742**	**2.0670**	**4.8800e-003**	**0.3043**	**0.0106**	**0.3149**	**0.0817**	**9.7600e-003**	**0.0915**						**374.0563**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0876	1.8497	2.3249	3.5000e-003		0.1177	0.1177		0.1177	0.1177						310.5720
Total	**0.0876**	**1.8497**	**2.3249**	**3.5000e-003**		**0.1177**	**0.1177**		**0.1177**	**0.1177**						**310.5720**

3.4 Building - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0553	0.5498	0.7748	1.5700e-003	0.0441	8.2700e-003	0.0523	0.0126	7.6100e-003	0.0202						138.3079
Worker	0.0833	0.1244	1.2923	3.3100e-003	0.2603	2.3300e-003	0.2626	0.0691	2.1500e-003	0.0713						235.7484
Total	**0.1386**	**0.6742**	**2.0670**	**4.8800e-003**	**0.3043**	**0.0106**	**0.3149**	**0.0817**	**9.7600e-003**	**0.0915**						**374.0563**

3.4 Building - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3069	2.7359	2.2342	3.5000e-003		0.1677	0.1677		0.1577	0.1577						307.0913
Total	**0.3069**	**2.7359**	**2.2342**	**3.5000e-003**		**0.1677**	**0.1677**		**0.1577**	**0.1577**						**307.0913**

3.4 Building - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0524	0.5070	0.7492	1.5600e-003	0.0441	7.8600e-003	0.0519	0.0126	7.2300e-003	0.0198						135.4687
Worker	0.0764	0.1141	1.1840	3.2900e-003	0.2603	2.2700e-003	0.2625	0.0691	2.1100e-003	0.0712						226.4939
Total	**0.1288**	**0.6211**	**1.9332**	**4.8500e-003**	**0.3043**	**0.0101**	**0.3145**	**0.0817**	**9.3400e-003**	**0.0910**						**361.9626**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0876	1.8497	2.3249	3.5000e-003		0.1177	0.1177		0.1177	0.1177						307.0909
Total	**0.0876**	**1.8497**	**2.3249**	**3.5000e-003**		**0.1177**	**0.1177**		**0.1177**	**0.1177**						**307.0909**

3.4 Building - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0524	0.5070	0.7492	1.5600e-003	0.0441	7.8600e-003	0.0519	0.0126	7.2300e-003	0.0198						135.4687
Worker	0.0764	0.1141	1.1840	3.2900e-003	0.2603	2.2700e-003	0.2625	0.0691	2.1100e-003	0.0712						226.4939
Total	**0.1288**	**0.6211**	**1.9332**	**4.8500e-003**	**0.3043**	**0.0101**	**0.3145**	**0.0817**	**9.3400e-003**	**0.0910**						**361.9626**

3.4 Building - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0243	0.2195	0.1933	3.1000e-004		0.0128	0.0128		0.0120	0.0120						26.6605
Total	**0.0243**	**0.2195**	**0.1933**	**3.1000e-004**		**0.0128**	**0.0128**		**0.0120**	**0.0120**						**26.6605**

3.4 Building - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	4.4100e-003	0.0391	0.0642	1.4000e-004	3.8800e-003	6.3000e-004	4.5200e-003	1.1100e-003	5.8000e-004	1.6900e-003						11.6719
Worker	6.3100e-003	9.3200e-003	0.0971	2.9000e-004	0.0229	2.0000e-004	0.0231	6.0900e-003	1.8000e-004	6.2800e-003						19.1567
Total	**0.0107**	**0.0484**	**0.1613**	**4.3000e-004**	**0.0268**	**8.3000e-004**	**0.0277**	**7.2000e-003**	**7.6000e-004**	**7.9700e-003**						**30.8286**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.7200e-003	0.1630	0.2049	3.1000e-004		0.0104	0.0104		0.0104	0.0104						26.6604
Total	**7.7200e-003**	**0.1630**	**0.2049**	**3.1000e-004**		**0.0104**	**0.0104**		**0.0104**	**0.0104**						**26.6604**

3.4 Building - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	4.4100e-003	0.0391	0.0642	1.4000e-004	3.8800e-003	6.3000e-004	4.5200e-003	1.1100e-003	5.8000e-004	1.6900e-003						11.6719
Worker	6.3100e-003	9.3200e-003	0.0971	2.9000e-004	0.0229	2.0000e-004	0.0231	6.0900e-003	1.8000e-004	6.2800e-003						19.1567
Total	**0.0107**	**0.0484**	**0.1613**	**4.3000e-004**	**0.0268**	**8.3000e-004**	**0.0277**	**7.2000e-003**	**7.6000e-004**	**7.9700e-003**						**30.8286**

3.5 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0410	0.4364	0.3166	4.8000e-004		0.0245	0.0245		0.0225	0.0225						44.7771
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0410**	**0.4364**	**0.3166**	**4.8000e-004**		**0.0245**	**0.0245**		**0.0225**	**0.0225**						**44.7771**

3.5 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4000e-004	1.2400e-003	0.0129	3.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.5000e-004						2.2153
Total	**8.4000e-004**	**1.2400e-003**	**0.0129**	**3.0000e-005**	**2.3600e-003**	**2.0000e-005**	**2.3800e-003**	**6.3000e-004**	**2.0000e-005**	**6.5000e-004**						**2.2153**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0118	0.2379	0.3639	4.8000e-004		0.0129	0.0129		0.0129	0.0129						44.7771
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0118**	**0.2379**	**0.3639**	**4.8000e-004**		**0.0129**	**0.0129**		**0.0129**	**0.0129**						**44.7771**

3.5 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4000e-004	1.2400e-003	0.0129	3.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.5000e-004						2.2153
Total	**8.4000e-004**	**1.2400e-003**	**0.0129**	**3.0000e-005**	**2.3600e-003**	**2.0000e-005**	**2.3800e-003**	**6.3000e-004**	**2.0000e-005**	**6.5000e-004**						**2.2153**

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2103	2.2397	1.8915	2.9100e-003		0.1225	0.1225		0.1127	0.1127						267.5499
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.2103**	**2.2397**	**1.8915**	**2.9100e-003**		**0.1225**	**0.1225**		**0.1127**	**0.1127**						**267.5499**

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.5800e-003	6.8400e-003	0.0710	1.8000e-004	0.0143	1.3000e-004	0.0144	3.8000e-003	1.2000e-004	3.9200e-003						12.9532
Total	**4.5800e-003**	**6.8400e-003**	**0.0710**	**1.8000e-004**	**0.0143**	**1.3000e-004**	**0.0144**	**3.8000e-003**	**1.2000e-004**	**3.9200e-003**						**12.9532**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0716	1.4439	2.2091	2.9100e-003		0.0781	0.0781		0.0781	0.0781						267.5495
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0716**	**1.4439**	**2.2091**	**2.9100e-003**		**0.0781**	**0.0781**		**0.0781**	**0.0781**						**267.5495**

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.5800e-003	6.8400e-003	0.0710	1.8000e-004	0.0143	1.3000e-004	0.0144	3.8000e-003	1.2000e-004	3.9200e-003						12.9532
Total	**4.5800e-003**	**6.8400e-003**	**0.0710**	**1.8000e-004**	**0.0143**	**1.3000e-004**	**0.0144**	**3.8000e-003**	**1.2000e-004**	**3.9200e-003**						**12.9532**

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1861	1.9491	1.8747	2.9100e-003		0.1056	0.1056		0.0972	0.0972						263.2526
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.1861**	**1.9491**	**1.8747**	**2.9100e-003**		**0.1056**	**0.1056**		**0.0972**	**0.0972**						**263.2526**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.2000e-003	6.2700e-003	0.0651	1.8000e-004	0.0143	1.2000e-004	0.0144	3.8000e-003	1.2000e-004	3.9100e-003						12.4447
Total	**4.2000e-003**	**6.2700e-003**	**0.0651**	**1.8000e-004**	**0.0143**	**1.2000e-004**	**0.0144**	**3.8000e-003**	**1.2000e-004**	**3.9100e-003**						**12.4447**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0716	1.4439	2.2091	2.9100e-003		0.0781	0.0781		0.0781	0.0781						263.2523
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0716**	**1.4439**	**2.2091**	**2.9100e-003**		**0.0781**	**0.0781**		**0.0781**	**0.0781**						**263.2523**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.2000e-003	6.2700e-003	0.0651	1.8000e-004	0.0143	1.2000e-004	0.0144	3.8000e-003	1.2000e-004	3.9100e-003						12.4447
Total	**4.2000e-003**	**6.2700e-003**	**0.0651**	**1.8000e-004**	**0.0143**	**1.2000e-004**	**0.0144**	**3.8000e-003**	**1.2000e-004**	**3.9100e-003**						**12.4447**

3.5 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0865	0.8960	0.9329	1.4500e-003		0.0480	0.0480		0.0442	0.0442						128.2788
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0865**	**0.8960**	**0.9329**	**1.4500e-003**		**0.0480**	**0.0480**		**0.0442**	**0.0442**						**128.2788**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.9600e-003	2.8900e-003	0.0302	9.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003						5.9493
Total	**1.9600e-003**	**2.8900e-003**	**0.0302**	**9.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**						**5.9493**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0357	0.7192	1.1003	1.4500e-003		0.0389	0.0389		0.0389	0.0389						128.2786
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0357**	**0.7192**	**1.1003**	**1.4500e-003**		**0.0389**	**0.0389**		**0.0389**	**0.0389**						**128.2786**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.9600e-003	2.8900e-003	0.0302	9.0000e-005	7.1200e-003	6.0000e-005	7.1800e-003	1.8900e-003	6.0000e-005	1.9500e-003						5.9493
Total	**1.9600e-003**	**2.8900e-003**	**0.0302**	**9.0000e-005**	**7.1200e-003**	**6.0000e-005**	**7.1800e-003**	**1.8900e-003**	**6.0000e-005**	**1.9500e-003**						**5.9493**

3.6 Coatings - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0948					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0355	0.2387	0.2207	3.5000e-004		0.0179	0.0179		0.0179	0.0179						30.4444
Total	**1.1303**	**0.2387**	**0.2207**	**3.5000e-004**		**0.0179**	**0.0179**		**0.0179**	**0.0179**						**30.4444**

3.6 Coatings - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0150	0.0224	0.2331	6.0000e-004	0.0469	4.2000e-004	0.0474	0.0125	3.9000e-004	0.0129						42.5223
Total	**0.0150**	**0.0224**	**0.2331**	**6.0000e-004**	**0.0469**	**4.2000e-004**	**0.0474**	**0.0125**	**3.9000e-004**	**0.0129**						**42.5223**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0948					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	7.0700e-003	0.1615	0.2181	3.5000e-004		0.0113	0.0113		0.0113	0.0113						30.4444
Total	**1.1018**	**0.1615**	**0.2181**	**3.5000e-004**		**0.0113**	**0.0113**		**0.0113**	**0.0113**						**30.4444**

3.6 Coatings - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0150	0.0224	0.2331	6.0000e-004	0.0469	4.2000e-004	0.0474	0.0125	3.9000e-004	0.0129						42.5223
Total	**0.0150**	**0.0224**	**0.2331**	**6.0000e-004**	**0.0469**	**4.2000e-004**	**0.0474**	**0.0125**	**3.9000e-004**	**0.0129**						**42.5223**

3.6 Coatings - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2006					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e-004		0.0168	0.0168		0.0168	0.0168						33.3791
Total	**1.2353**	**0.2395**	**0.2403**	**3.9000e-004**		**0.0168**	**0.0168**		**0.0168**	**0.0168**						**33.3791**

3.6 Coatings - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0151	0.0226	0.2342	6.5000e-004	0.0515	4.5000e-004	0.0519	0.0137	4.2000e-004	0.0141						44.8010
Total	**0.0151**	**0.0226**	**0.2342**	**6.5000e-004**	**0.0515**	**4.5000e-004**	**0.0519**	**0.0137**	**4.2000e-004**	**0.0141**						**44.8010**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2006					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	7.7600e-003	0.1771	0.2391	3.9000e-004		0.0124	0.0124		0.0124	0.0124						33.3790
Total	**1.2083**	**0.1771**	**0.2391**	**3.9000e-004**		**0.0124**	**0.0124**		**0.0124**	**0.0124**						**33.3790**

3.6 Coatings - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0151	0.0226	0.2342	6.5000e-004	0.0515	4.5000e-004	0.0519	0.0137	4.2000e-004	0.0141						44.8010
Total	**0.0151**	**0.0226**	**0.2342**	**6.5000e-004**	**0.0515**	**4.5000e-004**	**0.0519**	**0.0137**	**4.2000e-004**	**0.0141**						**44.8010**

3.6 Coatings - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2052					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145						33.5020
Total	**1.2369**	**0.2206**	**0.2399**	**3.9000e-004**		**0.0145**	**0.0145**		**0.0145**	**0.0145**						**33.5020**

3.6 Coatings - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0142	0.0210	0.2188	6.5000e-004	0.0517	4.5000e-004	0.0521	0.0137	4.1000e-004	0.0141						43.1644
Total	**0.0142**	**0.0210**	**0.2188**	**6.5000e-004**	**0.0517**	**4.5000e-004**	**0.0521**	**0.0137**	**4.1000e-004**	**0.0141**						**43.1644**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.2052					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	7.7900e-003	0.1778	0.2401	3.9000e-004		0.0125	0.0125		0.0125	0.0125						33.5020
Total	**1.2130**	**0.1778**	**0.2401**	**3.9000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**						**33.5020**

3.6 Coatings - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0142	0.0210	0.2188	6.5000e-004	0.0517	4.5000e-004	0.0521	0.0137	4.1000e-004	0.0141						43.1644
Total	**0.0142**	**0.0210**	**0.2188**	**6.5000e-004**	**0.0517**	**4.5000e-004**	**0.0521**	**0.0137**	**4.1000e-004**	**0.0141**						**43.1644**

3.6 Coatings - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0966					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	2.3000e-003	0.0160	0.0191	3.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004						2.6848
Total	**0.0989**	**0.0160**	**0.0191**	**3.0000e-005**		**9.9000e-004**	**9.9000e-004**		**9.9000e-004**	**9.9000e-004**						**2.6848**

3.6 Coatings - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.0800e-003	1.5700e-003	0.0165	5.0000e-005	4.1400e-003	4.0000e-005	4.1800e-003	1.1000e-003	3.0000e-005	1.1300e-003						3.4054
Total	**1.0800e-003**	**1.5700e-003**	**0.0165**	**5.0000e-005**	**4.1400e-003**	**4.0000e-005**	**4.1800e-003**	**1.1000e-003**	**3.0000e-005**	**1.1300e-003**						**3.4054**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0966					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	6.2000e-004	0.0143	0.0192	3.0000e-005		1.0000e-003	1.0000e-003		1.0000e-003	1.0000e-003						2.6848
Total	**0.0972**	**0.0143**	**0.0192**	**3.0000e-005**		**1.0000e-003**	**1.0000e-003**		**1.0000e-003**	**1.0000e-003**						**2.6848**

3.6 Coatings - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.0800e-003	1.5700e-003	0.0165	5.0000e-005	4.1400e-003	4.0000e-005	4.1800e-003	1.1000e-003	3.0000e-005	1.1300e-003						3.4054
Total	**1.0800e-003**	**1.5700e-003**	**0.0165**	**5.0000e-005**	**4.1400e-003**	**4.0000e-005**	**4.1800e-003**	**1.1000e-003**	**3.0000e-005**	**1.1300e-003**						**3.4054**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1856	5.7593	25.3234	0.0938	6.1403	0.1281	6.2684	1.6452	0.1182	1.7635						6,347.1351
Unmitigated	2.1856	5.7593	25.3234	0.0938	6.1403	0.1281	6.2684	1.6452	0.1182	1.7635						6,347.1351

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Single Family Housing	4,756.29	5,009.76	4358.69	16,182,606	16,182,606
User Defined Recreational	0.00	0.00	0.00		
Total	4,756.29	5,009.76	4,358.69	16,182,606	16,182,606

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
User Defined Recreational	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.520397	0.057988	0.180404	0.127035	0.040743	0.006604	0.017532	0.037311	0.002617	0.003209	0.003763	0.000522	0.001873

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						665.8298
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						852.8310
NaturalGas Mitigated	0.0645	0.5517	0.2374	3.5200e-003		0.0446	0.0446		0.0446	0.0446						642.4048
NaturalGas Unmitigated	0.0807	0.6903	0.2970	4.4000e-003		0.0558	0.0558		0.0558	0.0558						803.7690

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Health Club	159885	8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004						8.5840
Single Family Housing	1.48111e+007	0.0799	0.6825	0.2904	4.3600e-003		0.0552	0.0552		0.0552	0.0552						795.1850
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**0.0807**	**0.6903**	**0.2970**	**4.4100e-003**		**0.0558**	**0.0558**		**0.0558**	**0.0558**						**803.7690**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Health Club	129370	7.0000e-004	6.3400e-003	5.3300e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004						6.9457
Single Family Housing	1.1836e+007	0.0638	0.5454	0.2321	3.4800e-003		0.0441	0.0441		0.0441	0.0441						635.4592
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Total		**0.0645**	**0.5517**	**0.2374**	**3.5200e-003**		**0.0446**	**0.0446**		**0.0446**	**0.0446**						**642.4048**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0				0.0000
Health Club	102425				23.4317
Single Family Housing	3.62549e +006				829.3994
User Defined Recreational	0				0.0000
Total					**852.8310**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0				0.0000
Health Club	73950				16.9175
Single Family Housing	2.83654e+006				648.9124
User Defined Recreational	0				0.0000
Total					**665.8298**

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7774	0.0591	5.1263	2.7000e-004		0.0284	0.0284		0.0284	0.0284						8.5472
Unmitigated	5.4053	0.1004	8.2490	5.2400e-003		0.5030	0.5030		0.5029	0.5029						167.2009

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3597					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.2634					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	1.6279	0.0413	3.1227	4.9700e-003		0.4746	0.4746		0.4745	0.4745						158.6537
Landscaping	0.1543	0.0591	5.1263	2.7000e-004		0.0284	0.0284		0.0284	0.0284						8.5472
Total	**5.4053**	**0.1004**	**8.2490**	**5.2400e-003**		**0.5030**	**0.5030**		**0.5029**	**0.5029**						**167.2009**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3597					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.2634					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.1543	0.0591	5.1263	2.7000e-004		0.0284	0.0284		0.0284	0.0284						8.5472
Total	**3.7774**	**0.0591**	**5.1263**	**2.7000e-004**		**0.0284**	**0.0284**		**0.0284**	**0.0284**						**8.5472**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				215.4006
Unmitigated				215.4172

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 9.44845				24.0144
Health Club	0.502717 / 0.308117				2.9040
Single Family Housing	32.3816 / 20.4145				188.4988
User Defined Recreational	0 / 0				0.0000
Total					**215.4172**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 9.44845				24.0144
Health Club	0.502717 / 0.308117				2.9038
Single Family Housing	32.3816 / 20.4145				188.4825
User Defined Recreational	0 / 0				0.0000
Total					**215.4006**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				71.8471
Unmitigated				287.3885

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.68				0.3093
Health Club	48.45				22.0407
Single Family Housing	582.61				265.0385
User Defined Recreational	0				0.0000
Total					**287.3885**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.17				0.0773
Health Club	12.1125				5.5102
Single Family Housing	145.653				66.2596
User Defined Recreational	0				0.0000
Total					**71.8471**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated				11,443.7210

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	0 / 10.8				46.5480
Grassland	151.7 / 0				-653.8270
Scrub	0 / 29.6				423.2800
Trees	0 / 63.7				7,070.7000
Cropland	0 / 13.3				82.4600
Total					**6,969.1610**

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	6320				4,474.5600
Total					**4,474.5600**

BAY AREA AQMD SIMPLIFIED CALINE4 ANALYSIS; UPDATED WITH EMFAC2007

Project Title:	Los Valles Revised Tract Map
Intersection:	Commerce Center Drive and Henry Mayo Drive (SR-126)
Analysis Condition:	Future (Year 2023) with Project
Nearest Air Monitoring Station measuring CO:	Santa Clarita-Placerita Canyon
Background 1-hour CO Concentration (ppm):	2.0
Background 8-hour CO Concentration (ppm):	1.2
Persistence Factor:	0.6
Analysis Year:	2020

		Roadway Type	No. of Lanes	Approach/Departure Speed A.M.	Approach/Departure Speed P.M.
North-South Roadway:	Commerce Center Dr	AT GRADE	4	5	5
East-West Roadway:	Henry Mayo Dr	AT GRADE	4	5	5

EMFAC2007 COMPOSITE EMISSION FACTORS FOR CO

Air Basin: South Central Coast County: Los Angeles
Assumes lowest mean wintertime temperature of 47 degrees F and 52% humidity.

	Average Speed (miles per hour)									
Year	5	8	11	14	17	20	23	26	29	32
2010	6.419	5.647	5.034	4.542	4.142	3.818	3.553	3.333	3.15	3
2011	5.798	5.116	4.572	4.134	3.777	3.487	3.249	3.051	2.886	2.749
2012	5.251	4.645	4.161	3.77	3.451	3.19	2.976	2.797	2.647	2.522
2013	4.757	4.22	3.79	3.44	3.154	2.92	2.728	2.566	2.43	2.316
2014	4.323	3.844	3.46	3.146	2.889	2.679	2.505	2.359	2.235	2.13
2015	3.937	3.51	3.165	2.883	2.651	2.461	2.305	2.172	2.059	1.963
2020	2.646	2.387	2.174	1.997	1.85	1.728	1.627	1.539	1.464	1.398
2025	1.949	1.77	1.621	1.496	1.392	1.306	1.233	1.17	1.115	1.067
2030	1.615	1.471	1.35	1.248	1.163	1.093	1.034	0.983	0.937	0.898
2035	1.403	1.276	1.17	1.081	1.007	0.946	0.896	0.852	0.813	0.779
2040	1.283	1.164	1.065	0.982	0.913	0.858	0.813	0.773	0.738	0.706

PEAK HOUR TURNING VOLUMES

AM

N				
	128	139	293	
W	<	v	>	E
230 ^			^	1,119
1,033 >			<	1,449
166 v			v	119
	<	^	>	
	275	520	42	
S				

PM

N				
	194	414	1,006	
W	<	v	>	E
106 ^			^	307
1,751 >			<	1,290
219 v			v	74
	<	^	>	
	232	171	110	
S				

Representative Traffic Volumes (Vehicles per Hour)

N-S Road	2,429	N-S Road	2,198
E-W Road	4,055	E-W Road	4,538
Primary Road =	E-W Road	Primary Road =	E-W Road

ROADWAY CO CONTRIBUTIONS

Roadway	Reference CO Concentrations 0 Feet	25 Feet	50 Feet		Traffic Volume		Emission Factor		
A.M. Peak Hour									
N-S Road	3.3	2.6	2.2	*	2,429	*	2.65	÷	100,000
E-W Road	11.9	7.0	5.4	*	4,055	*	2.65	÷	100,000
P.M. Peak Hour									
N-S Road	3.3	2.6	2.2	*	2,198	*	2.65	÷	100,000
E-W Road	11.9	7.0	5.4	*	4,538	*	2.65	÷	100,000

TOTAL CO CONCENTRATIONS (ppm)

	AM Peak	PM Peak	8-Hour
0 Feet from Roadway Edge	3.5	3.6	2.1
25 Feet from Roadway Edge	2.9	3.0	1.7
50 Feet from Roadway Edge	2.7	2.8	1.6

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.2.0
** Lakes Environmental Software Inc.
** Date: 6/5/2014
** File: C:\AERMOD\LosValles\LosVallesNOx\LosVallesCO\LosVallesCO.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\AERMOD\LosValles\LosVallesNOx\LosVallesCO\LosVallesCO.isc
   MODELOPT DFAULT CONC
   AVERTIME 1 8 PERIOD
   POLLUTID CO
   RUNORNOT RUN
   ERRORFIL LosVallesCO.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     349887.570  3814179.790      385.830
** DESCRSRC Grading
   LOCATION VOL2         VOLUME     349370.560  3814249.570      383.120
** DESCRSRC Paving
   LOCATION VOL3         VOLUME     349694.090  3814627.020      410.120
** DESCRSRC Trenching
** Source Parameters **
   SRCPARAM VOL1              3.36     3.000    73.026     1.000
   SRCPARAM VOL2               0.0     3.000    67.126     1.000
   SRCPARAM VOL3               0.0     3.000    68.600     1.000
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED LosVallesCO.rou
RE FINISHED
**
****************************************
```

```
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE met\burk6.sfc
   PROFFILE met\burk6.PFL
   SURFDATA 0 2005
   UAIRDATA 3190 2005
   SITEDATA 99999 2005
   PROFBASE 175.0 METERS
   STARTEND 2005 1 1 1 2005 12 31 24
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST 8TH
   RECTABLE 8 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST LOSVALLESCO.AD\01H1GALL.PLT 31
   PLOTFILE 8 ALL 1ST LOSVALLESCO.AD\08H1GALL.PLT 32
   PLOTFILE 1 ALL 8TH LOSVALLESCO.AD\01H8GALL.PLT 33
   PLOTFILE PERIOD ALL LOSVALLESCO.AD\PE00GALL.PLT 34
   SUMMFILE LosVallesCO.sum
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 SO W320      43  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS
 SO W320      44  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS

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

```
 *** AERMOD - VERSION  12345 ***   ***
C:\AERMOD\LosValles\LosVallesNOx\LosVallesCO\LosVallesCO.isc         ***
06/05/14
                                   ***
***        15:29:40

PAGE   1
 **MODELOPTs:  RegDFAULT CONC                                                ELEV


                                            ***     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 RURAL Dispersion Only.

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.

 **Model Assumes No FLAGPOLE Receptor Heights.

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

 **This Run Includes:      3 Source(s);       1 Source Group(s); and    1619
Receptor(s)

 **The Model Assumes A Pollutant Type of:  CO

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

 **Output Options Selected:
          Model Outputs Tables of PERIOD 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) = 175.00 ; 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 = 4.0 MB of RAM.

**Detailed Error/Message File: LosVallesCO.err
**File for Summary of Results: LosVallesCO.sum

**MODELOPTs: RegDFAULT CONC ELEV

*** 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	EMISSION RATE SCALAR VARY BY
VOL1	0	0.33600E+01	349887.6	3814179.8	385.8	3.00	73.03	1.00	NO	
VOL2	0	0.00000E+00	349370.6	3814249.6	383.1	3.00	67.13	1.00	NO	
VOL3	0	0.00000E+00	349694.1	3814627.0	410.1	3.00	68.60	1.00	NO	

**MODELOPTs: RegDFAULT CONC ELEV

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 ,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

348170.3, 348245.3, 348320.3, 348395.3, 348470.3, 348545.3, 348620.3, 348695.3, 348770.3, 348845.3,
348920.3, 348995.3, 349070.3, 349145.3, 349220.3, 349295.3, 349370.3, 349445.3, 349520.3, 349595.3,
349670.3, 349745.3, 349820.3, 349895.3, 349970.3, 350045.3, 350120.3, 350195.3, 350270.3, 350345.3,
350420.3, 350495.3, 350570.3, 350645.3, 350720.3, 350795.3, 350870.3, 350945.3, 351020.3, 351095.3,

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

3813170.5, 3813245.5, 3813320.5, 3813395.5, 3813470.5, 3813545.5, 3813620.5, 3813695.5, 3813770.5, 3813845.5,
3813920.5, 3813995.5, 3814070.5, 3814145.5, 3814220.5, 3814295.5, 3814370.5, 3814445.5, 3814520.5, 3814595.5,
3814670.5, 3814745.5, 3814820.5, 3814895.5, 3814970.5, 3815045.5, 3815120.5, 3815195.5, 3815270.5, 3815345.5,
3815420.5, 3815495.5, 3815570.5, 3815645.5, 3815720.5, 3815795.5, 3815870.5, 3815945.5, 3816020.5, 3816095.5,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	473.20	460.50	461.30	472.50	488.90	483.80	480.90	493.00	487.20
3816020.46	460.70	456.40	459.60	478.20	482.60	482.70	467.70	489.70	476.70
3815945.46	454.90	454.30	459.70	477.60	470.30	479.70	461.70	479.50	468.40
3815870.46	449.30	450.00	453.30	457.60	461.50	465.80	456.80	463.90	462.60
3815795.46	447.90	447.20	448.00	449.80	457.90	450.10	450.20	455.10	456.00
3815720.46	443.50	444.90	447.90	458.90	460.90	443.30	447.00	450.10	451.30
3815645.46	442.20	441.40	445.00	456.70	455.70	440.90	443.30	443.50	450.60
3815570.46	445.80	438.00	441.50	456.50	452.20	433.40	440.10	453.20	465.70
3815495.46	446.40	435.80	441.00	460.90	439.60	434.90	446.40	464.00	477.90
3815420.46	435.50	433.00	442.70	460.10	432.60	434.20	451.80	466.20	455.00
3815345.46	432.00	429.60	442.10	452.30	427.20	434.10	443.40	441.70	451.60
3815270.46	427.20	427.30	440.90	440.80	422.60	429.70	441.30	457.80	474.20
3815195.46	423.40	424.00	432.50	438.90	420.10	421.20	430.50	450.20	468.80
3815120.46	420.10	422.00	428.30	438.40	427.20	414.40	422.50	434.00	451.60
3815045.46	416.90	418.60	421.80	429.50	427.60	410.70	414.40	420.70	436.20
3814970.46	415.70	419.80	426.90	432.40	434.80	412.80	408.60	418.90	431.60
3814895.46	431.90	435.20	444.00	438.40	431.30	418.80	403.60	406.20	415.50
3814820.46	429.20	425.60	436.80	427.20	423.30	421.60	402.20	402.70	414.50

3814745.46	415.60	411.60	420.40	414.20	414.30	417.00	403.20	400.80	402.20
3814670.46	402.20	402.60	407.60	410.40	403.70	402.40	397.10	395.30	398.10
3814595.46	399.20	396.10	393.90	395.80	399.80	393.00	392.60	393.00	398.60
3814520.46	397.70	395.20	392.10	391.10	390.40	388.10	388.20	388.30	403.30
3814445.46	396.40	394.20	392.00	391.00	389.20	387.10	385.90	385.60	391.40
3814370.46	404.00	397.00	394.70	392.30	388.60	387.90	386.20	384.00	383.20
3814295.46	422.40	410.90	401.90	394.90	394.00	391.70	387.00	384.50	382.90
3814220.46	430.30	413.50	404.10	406.70	403.00	400.10	390.40	386.10	382.60
3814145.46	419.10	413.30	419.50	427.40	420.90	402.90	393.80	386.50	384.20
3814070.46	418.60	432.90	452.10	446.80	424.20	403.10	395.20	396.40	386.50
3813995.46	437.90	454.80	469.40	447.60	431.20	411.40	408.70	404.50	393.10
3813920.46	421.60	429.20	436.50	467.70	439.20	419.80	423.60	415.40	402.00
3813845.46	406.90	412.90	432.60	456.50	447.60	446.90	436.80	428.00	413.20
3813770.46	402.70	404.70	413.90	434.30	429.90	433.20	429.60	425.20	409.90
3813695.46	396.10	402.30	416.70	423.90	417.90	415.80	409.20	406.40	392.80
3813620.46	393.70	396.60	409.10	420.60	411.40	403.50	398.80	394.50	395.90
3813545.46	394.30	408.10	423.50	425.00	409.80	403.70	407.10	397.80	401.70
3813470.46	404.30	421.70	412.10	412.50	415.10	420.70	419.90	403.60	408.30
3813395.46	398.10	404.00	397.20	400.40	403.90	419.00	422.90	411.50	420.80
3813320.46	386.70	390.40	393.30	395.10	403.90	407.80	424.70	429.30	427.30
3813245.46	391.80	393.50	399.40	406.80	423.60	427.90	435.80	447.70	442.10
3813170.46	400.50	405.00	415.00	425.60	429.50	423.60	442.20	446.30	429.20

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	487.70	509.30	487.20	504.50	495.50	509.20	498.40	475.30	487.10
3816020.46	487.40	501.20	479.60	494.80	483.50	496.40	476.20	467.40	483.20
3815945.46	474.90	478.50	470.60	490.40	471.80	494.00	475.10	459.60	473.90
3815870.46	465.10	467.50	468.80	469.10	464.00	471.50	470.20	455.20	449.70
3815795.46	458.40	464.00	458.80	458.10	458.00	461.60	463.80	462.60	449.70
3815720.46	456.70	457.50	449.80	452.30	454.10	455.60	458.30	456.70	447.00
3815645.46	456.00	461.00	450.70	447.60	450.10	452.20	459.00	462.70	457.70
3815570.46	465.80	464.80	452.30	442.90	447.60	458.10	477.00	483.20	475.50
3815495.46	479.80	467.10	459.70	440.30	449.90	464.30	473.40	475.70	499.20
3815420.46	475.80	467.70	448.20	435.70	443.10	450.00	461.70	471.00	485.90
3815345.46	469.90	462.00	441.20	436.80	457.20	476.30	475.40	503.50	504.10
3815270.46	457.90	453.10	439.50	430.90	453.90	458.70	472.00	500.70	479.80
3815195.46	446.30	441.80	424.60	435.80	443.50	457.00	471.90	487.10	464.70
3815120.46	435.20	429.10	423.50	431.20	442.10	460.80	474.00	463.90	450.50
3815045.46	430.40	420.90	423.40	444.90	443.70	448.80	454.70	447.10	438.80
3814970.46	433.00	412.60	414.50	422.10	435.40	457.90	442.40	432.40	433.10
3814895.46	422.50	410.20	417.90	430.00	441.50	444.90	432.60	421.40	441.10
3814820.46	408.20	403.40	411.60	421.90	418.40	423.30	424.20	417.80	428.30

3814745.46	|	401.70	402.80	419.90	412.50	415.60	416.60	412.60	417.10	449.50
3814670.46	|	397.40	402.40	410.70	406.70	402.70	406.10	404.40	413.90	432.00
3814595.46	|	398.90	415.30	408.70	395.70	394.00	399.40	398.30	405.20	415.20
3814520.46	|	412.60	409.40	404.40	393.80	387.40	395.60	394.30	397.90	416.00
3814445.46	|	394.70	392.90	396.10	396.30	385.10	387.30	394.30	407.00	414.30
3814370.46	|	383.60	380.70	378.60	381.30	381.90	389.20	404.80	402.90	404.10
3814295.46	|	381.10	378.90	378.00	377.60	379.10	379.10	391.60	391.90	401.40
3814220.46	|	380.20	378.60	377.00	376.10	375.10	373.80	374.50	380.40	391.20
3814145.46	|	381.10	378.60	376.10	374.60	372.70	371.40	369.70	370.00	375.10
3814070.46	|	380.20	379.00	378.00	374.60	372.10	369.70	368.20	367.00	366.80
3813995.46	|	386.60	387.20	382.20	374.00	371.10	369.00	367.70	366.60	365.10
3813920.46	|	389.50	380.00	378.20	375.80	372.90	371.40	369.20	365.70	365.00
3813845.46	|	388.30	383.50	383.00	389.80	393.00	387.70	372.90	369.00	366.00
3813770.46	|	385.80	407.60	409.30	403.60	403.70	386.20	373.70	372.50	369.10
3813695.46	|	398.00	409.10	437.20	423.30	404.70	386.20	384.50	377.60	370.40
3813620.46	|	396.40	411.00	425.80	430.70	420.10	409.40	384.80	386.50	381.40
3813545.46	|	405.70	402.90	411.80	420.20	404.90	394.00	396.60	409.90	400.30
3813470.46	|	418.00	411.90	409.90	419.10	413.60	401.50	404.90	426.70	408.00
3813395.46	|	427.80	431.90	414.90	415.60	404.40	409.50	393.90	397.50	410.90
3813320.46	|	440.90	429.00	421.20	416.20	396.90	391.90	386.50	385.60	395.40
3813245.46	|	423.40	413.80	403.20	406.40	403.80	404.00	391.50	378.70	387.90
3813170.46	|	419.60	410.80	402.60	394.00	397.40	388.90	383.70	380.00	376.00

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	480.80	484.10	464.80	456.50	458.10	459.40	457.40	435.00	446.90
3816020.46	460.80	461.90	462.90	447.80	442.20	436.30	449.80	436.40	427.80
3815945.46	453.30	443.60	447.80	441.40	434.50	428.90	427.00	432.00	420.70
3815870.46	452.10	440.50	435.80	431.60	427.50	423.70	419.50	420.20	417.50
3815795.46	441.20	438.00	434.20	429.20	423.80	418.20	414.50	410.40	408.40
3815720.46	444.60	452.50	448.30	428.30	422.40	415.80	417.00	414.50	405.20
3815645.46	450.30	459.60	436.90	427.30	427.10	424.80	416.60	411.50	406.10
3815570.46	456.60	459.20	439.60	438.60	436.00	426.00	424.90	415.00	413.00
3815495.46	470.00	468.20	450.50	466.60	443.80	432.40	442.00	433.70	424.00
3815420.46	485.80	486.80	482.20	458.10	449.10	449.60	458.50	440.80	438.50
3815345.46	518.10	506.80	505.40	477.20	472.70	477.40	486.10	458.50	464.40
3815270.46	498.00	488.80	497.60	493.90	510.40	497.60	496.10	492.80	497.50
3815195.46	468.40	483.80	486.10	471.20	483.30	491.50	472.30	479.60	510.80
3815120.46	456.50	471.50	494.50	461.60	467.40	484.90	463.10	478.30	499.50
3815045.46	449.10	467.80	470.10	468.20	449.80	467.10	455.00	476.30	490.00
3814970.46	464.40	468.80	447.60	465.40	446.30	449.20	454.00	467.40	499.10
3814895.46	450.50	449.70	436.50	458.90	441.30	437.30	466.60	504.50	513.10
3814820.46	451.10	442.20	428.20	441.00	432.60	441.40	475.50	488.70	481.30

3814745.46	|	461.30	449.00	426.80	431.60	423.20	437.30	452.70	457.70	455.40
3814670.46	|	430.40	420.40	424.30	419.60	415.60	423.00	430.00	437.40	442.80
3814595.46	|	419.60	407.70	406.00	410.10	410.10	418.70	425.50	431.40	441.80
3814520.46	|	420.90	401.90	402.40	400.80	411.80	440.00	442.30	451.30	450.00
3814445.46	|	415.90	396.50	393.00	397.70	407.60	418.40	432.50	426.30	452.40
3814370.46	|	400.50	386.90	390.90	404.40	426.50	415.70	412.00	426.90	421.60
3814295.46	|	391.10	383.90	397.40	417.30	408.00	391.70	412.90	414.40	426.10
3814220.46	|	386.90	381.00	404.40	418.40	405.40	386.80	411.50	400.20	419.60
3814145.46	|	376.60	378.10	390.60	400.90	386.20	392.30	414.80	396.00	397.10
3814070.46	|	369.60	373.60	372.40	386.70	376.60	381.90	402.40	401.40	390.30
3813995.46	|	365.10	364.70	365.20	365.80	367.70	389.80	394.70	379.10	395.60
3813920.46	|	364.00	363.10	362.10	360.40	362.10	369.60	378.60	370.90	380.20
3813845.46	|	363.60	360.80	359.60	358.10	357.00	362.20	363.50	371.50	375.60
3813770.46	|	363.60	360.10	357.70	356.20	355.10	357.00	359.00	363.00	379.20
3813695.46	|	364.10	361.10	357.60	355.10	354.00	354.60	355.30	382.30	375.00
3813620.46	|	374.60	370.30	357.70	355.10	352.70	351.10	352.70	354.70	353.50
3813545.46	|	393.50	374.30	362.40	359.70	353.70	349.70	349.50	348.60	348.60
3813470.46	|	389.40	378.60	368.10	368.20	358.90	350.10	347.60	346.10	346.10
3813395.46	|	400.00	386.40	386.00	377.00	363.40	352.50	349.20	347.40	344.60
3813320.46	|	389.80	391.60	403.30	393.10	377.50	364.10	360.30	349.80	343.00
3813245.46	|	377.40	381.30	381.90	400.40	396.20	382.20	366.00	359.00	352.60
3813170.46	|	377.30	368.10	370.20	384.20	392.00	396.90	381.90	369.20	356.30

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	435.70	453.50	453.60	426.90	443.30	434.90	459.60	441.80	402.90
3816020.46	426.70	424.60	426.40	425.80	419.00	418.80	428.70	420.40	413.40
3815945.46	420.70	416.40	409.40	404.10	409.00	405.20	409.50	397.50	404.20
3815870.46	413.70	409.80	400.50	395.40	400.90	398.10	404.00	388.00	396.50
3815795.46	407.40	404.50	401.00	393.70	390.50	391.60	389.00	384.70	381.70
3815720.46	401.50	399.80	396.60	390.40	386.20	385.20	390.40	380.00	377.70
3815645.46	402.30	395.70	393.10	388.20	383.90	378.70	376.80	371.70	369.30
3815570.46	414.50	400.30	395.90	395.90	386.30	378.40	380.40	372.20	366.50
3815495.46	435.70	417.20	407.90	420.20	402.90	392.00	385.20	376.80	370.50
3815420.46	451.10	424.10	417.60	407.90	400.10	394.20	386.10	380.40	374.20
3815345.46	471.30	449.50	425.00	414.10	411.90	406.70	393.00	389.80	377.40
3815270.46	461.80	443.30	429.10	432.70	446.80	425.50	408.30	424.60	401.40
3815195.46	490.70	464.90	452.50	458.40	482.80	464.90	450.30	425.10	407.00
3815120.46	476.70	481.40	478.70	468.50	462.70	478.20	464.90	442.60	423.40
3815045.46	481.70	459.00	459.80	468.90	446.30	477.00	471.20	441.60	437.20
3814970.46	472.20	474.20	444.10	459.20	434.40	458.50	442.60	449.50	423.20
3814895.46	481.00	458.50	456.60	435.20	429.70	434.30	427.50	425.90	414.20
3814820.46	474.20	455.80	441.90	438.40	426.80	419.40	412.00	403.50	399.40

3814745.46	471.60	468.30	476.20	469.10	450.30	443.40	432.20	433.10	405.60
3814670.46	445.90	466.20	455.80	441.40	445.40	449.10	423.70	415.40	418.60
3814595.46	449.70	460.30	439.60	426.30	420.00	439.90	417.50	394.70	398.60
3814520.46	454.20	461.40	429.60	411.80	404.10	403.00	409.00	385.50	374.60
3814445.46	453.50	456.80	438.00	425.80	414.80	396.90	388.40	380.60	395.10
3814370.46	451.80	421.50	411.00	411.80	428.80	415.70	399.50	403.80	380.80
3814295.46	440.40	417.20	402.50	393.70	398.20	403.40	401.00	401.80	381.70
3814220.46	423.80	427.40	402.60	387.80	382.00	382.20	386.50	413.60	406.70
3814145.46	420.20	409.90	414.50	394.40	375.10	366.90	385.40	378.20	398.50
3814070.46	409.50	410.40	410.00	379.70	371.70	361.30	365.30	368.30	368.70
3813995.46	387.70	397.20	410.40	379.80	367.80	367.50	358.40	350.50	360.10
3813920.46	392.00	408.60	409.10	388.50	389.10	362.60	360.10	346.20	338.50
3813845.46	394.80	397.20	380.50	401.00	396.90	384.10	389.10	364.60	357.60
3813770.46	381.20	377.50	382.60	375.80	379.70	381.50	395.60	392.70	364.90
3813695.46	361.80	367.20	370.80	362.70	367.80	387.30	382.60	372.80	349.10
3813620.46	355.30	359.10	366.30	358.30	362.70	368.00	375.70	362.30	336.90
3813545.46	348.60	349.90	349.60	353.10	364.90	357.80	383.40	358.90	332.50
3813470.46	346.10	345.30	344.40	347.10	347.10	366.60	367.70	360.10	345.20
3813395.46	344.70	342.90	341.60	341.60	341.30	350.00	369.90	380.70	344.30
3813320.46	343.00	340.70	339.20	339.10	339.90	341.90	361.40	353.50	345.30
3813245.46	342.20	339.60	338.10	338.00	338.00	336.90	337.90	363.60	337.20
3813170.46	346.10	341.50	338.20	336.70	336.90	335.70	334.10	347.00	340.90

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	418.40	427.80	424.70	407.00
3816020.46	399.80	416.10	400.50	392.70
3815945.46	390.40	402.30	392.80	375.90
3815870.46	388.50	394.20	374.20	371.90
3815795.46	384.40	376.00	385.30	366.70
3815720.46	376.80	376.10	366.90	365.90
3815645.46	369.60	369.90	364.20	356.80
3815570.46	363.80	365.10	363.60	365.00
3815495.46	364.50	358.80	356.60	356.80
3815420.46	366.70	358.30	355.50	350.20
3815345.46	368.50	366.60	359.50	351.40
3815270.46	382.90	386.40	367.50	355.60
3815195.46	401.50	392.00	387.50	377.40
3815120.46	418.80	419.20	414.10	391.90
3815045.46	425.90	416.10	398.80	399.40
3814970.46	422.80	425.70	419.20	404.50
3814895.46	404.80	418.20	409.90	403.50
3814820.46	396.00	404.80	409.00	395.30
3814745.46	393.60	385.40	396.60	404.80
3814670.46	397.50	397.60	385.60	375.40
3814595.46	386.20	391.80	393.80	379.30
3814520.46	366.80	365.90	375.80	387.60
3814445.46	389.80	372.30	356.30	376.90
3814370.46	372.10	372.50	350.00	361.10
3814295.46	369.20	350.60	346.20	356.10
3814220.46	370.90	367.50	345.80	338.50
3814145.46	391.50	364.20	372.50	346.10
3814070.46	380.70	386.70	375.80	349.00
3813995.46	348.70	348.50	361.30	356.40
3813920.46	338.30	335.60	335.70	336.40
3813845.46	339.20	335.40	327.20	326.70
3813770.46	364.90	359.80	335.40	323.40
3813695.46	342.50	338.10	322.60	320.10
3813620.46	327.30	320.20	318.70	318.10
3813545.46	325.30	319.10	318.00	318.00
3813470.46	320.20	317.20	317.00	317.00
3813395.46	319.60	317.60	317.00	317.00

3813320.46	319.60	318.10	317.00	316.00
3813245.46	319.60	316.20	316.00	316.00
3813170.46	320.00	316.00	316.00	315.90

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	760.00	760.00	760.00	760.00	609.00	609.00	609.00	609.00	609.00
3816020.46	760.00	760.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00
3815945.46	760.00	760.00	760.00	609.00	700.00	609.00	700.00	609.00	609.00
3815870.46	760.00	760.00	760.00	700.00	700.00	609.00	700.00	609.00	609.00
3815795.46	760.00	760.00	760.00	760.00	700.00	700.00	700.00	609.00	609.00
3815720.46	760.00	760.00	760.00	609.00	609.00	700.00	609.00	609.00	609.00
3815645.46	760.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00	609.00
3815570.46	700.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00	609.00
3815495.46	496.00	700.00	609.00	463.00	609.00	609.00	609.00	585.00	482.00
3815420.46	700.00	700.00	574.00	465.00	609.00	609.00	609.00	482.00	609.00
3815345.46	496.00	609.00	482.00	465.00	609.00	609.00	609.00	609.00	585.00
3815270.46	496.00	574.00	482.00	481.00	609.00	609.00	585.00	481.00	481.00
3815195.46	496.00	496.00	482.00	481.00	609.00	609.00	609.00	481.00	481.00
3815120.46	496.00	496.00	482.00	481.00	482.00	609.00	609.00	524.00	481.00
3815045.46	496.00	495.00	482.00	481.00	481.00	609.00	609.00	585.00	524.00
3814970.46	495.00	481.00	481.00	481.00	481.00	574.00	609.00	574.00	524.00
3814895.46	452.00	452.00	452.00	452.00	481.00	481.00	585.00	585.00	524.00
3814820.46	452.00	452.00	452.00	452.00	481.00	481.00	574.00	574.00	524.00

3814745.46	452.00	452.00	452.00	481.00	481.00	481.00	524.00	524.00	524.00
3814670.46	524.00	475.00	475.00	481.00	481.00	524.00	524.00	524.00	524.00
3814595.46	527.00	524.00	481.00	481.00	481.00	524.00	524.00	524.00	524.00
3814520.46	527.00	524.00	481.00	481.00	481.00	524.00	524.00	524.00	524.00
3814445.46	527.00	524.00	517.00	481.00	481.00	524.00	524.00	524.00	524.00
3814370.46	524.00	524.00	475.00	475.00	481.00	481.00	524.00	524.00	524.00
3814295.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	524.00	524.00
3814220.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	524.00
3814145.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3814070.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813995.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813920.46	475.00	475.00	475.00	473.00	475.00	475.00	475.00	475.00	475.00
3813845.46	475.00	475.00	475.00	475.00	475.00	473.00	475.00	475.00	475.00
3813770.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813695.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813620.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813545.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813470.46	475.00	473.00	475.00	475.00	475.00	473.00	464.00	475.00	473.00
3813395.46	475.00	475.00	475.00	475.00	475.00	464.00	464.00	464.00	464.00
3813320.46	504.00	504.00	504.00	504.00	504.00	504.00	464.00	464.00	464.00
3813245.46	504.00	504.00	504.00	504.00	464.00	464.00	464.00	464.00	464.00
3813170.46	504.00	504.00	504.00	464.00	464.00	504.00	464.00	464.00	504.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	585.00	524.00	585.00
3815495.46	479.80	609.00	609.00	609.00	609.00	609.00	585.00	524.00	524.00
3815420.46	480.00	574.00	609.00	609.00	609.00	609.00	585.00	524.00	524.00
3815345.46	481.00	524.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00
3815270.46	481.00	574.00	609.00	609.00	574.00	524.00	524.00	524.00	524.00
3815195.46	524.00	585.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00
3815120.46	585.00	609.00	609.00	609.00	524.00	524.00	524.00	524.00	524.00
3815045.46	524.00	609.00	609.00	524.00	524.00	524.00	524.00	524.00	524.00
3814970.46	524.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00	524.00
3814895.46	524.00	585.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814820.46	524.00	585.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00

3814745.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814670.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814595.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814520.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814445.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814370.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814295.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814220.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814145.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814070.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3813995.46	475.00	475.00	475.00	524.00	524.00	524.00	524.00	524.00
3813920.46	475.00	475.00	475.00	524.00	524.00	524.00	524.00	524.00
3813845.46	475.00	475.00	475.00	475.00	473.00	441.00	524.00	524.00
3813770.46	475.00	475.00	441.00	441.00	441.00	447.00	520.00	520.00
3813695.46	475.00	473.00	439.00	441.00	441.00	464.00	447.00	520.00
3813620.46	475.00	464.00	441.00	441.00	441.00	441.00	464.00	443.00
3813545.46	473.00	473.00	464.00	441.00	464.00	464.00	443.00	432.00
3813470.46	464.00	464.00	464.00	443.00	443.00	464.00	441.00	432.00
3813395.46	464.00	464.00	464.00	464.00	464.00	432.00	504.00	441.00
3813320.46	464.00	464.00	464.00	464.00	504.00	504.00	504.00	504.00
3813245.46	504.00	504.00	504.00	504.00	504.00	504.00	504.00	504.00
3813170.46	504.00	504.00	504.00	504.00	504.00	504.00	504.00	504.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815495.46	524.00	524.00	609.00	524.00	609.00	609.00	609.00	609.00	609.00
3815420.46	524.00	524.00	524.00	524.00	585.00	557.00	524.00	557.00	557.00
3815345.46	524.00	524.00	524.00	524.00	524.00	524.00	519.00	524.00	524.00
3815270.46	524.00	524.00	524.00	524.00	513.00	513.00	516.00	516.00	516.00
3815195.46	524.00	524.00	524.00	524.00	524.00	519.00	524.00	520.00	516.00
3815120.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00	516.00
3815045.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3814970.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3814895.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814820.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00

3814745.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814670.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00
3814595.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00
3814520.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814445.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814370.46	524.00	524.00	524.00	524.00	520.00	524.00	524.00	520.00
3814295.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814220.46	524.00	524.00	524.00	520.00	524.00	520.00	524.00	520.00
3814145.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814070.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3813995.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00
3813920.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00
3813845.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3813770.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3813695.46	520.00	520.00	524.00	524.00	524.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813545.46	432.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813470.46	432.00	441.00	520.00	520.00	520.00	520.00	520.00	520.00
3813395.46	432.00	432.00	432.00	432.00	520.00	520.00	520.00	520.00
3813320.46	504.00	432.00	403.30	405.00	432.00	504.00	520.00	520.00
3813245.46	504.00	504.00	504.00	405.00	405.00	405.00	482.00	482.00
3813170.46	504.00	504.00	504.00	504.00	405.00	405.00	405.00	409.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	579.00	579.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815495.46	579.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815420.46	524.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815345.46	520.00	524.00	534.00	579.00	579.00	579.00	609.00	579.00	609.00
3815270.46	520.00	524.00	524.00	524.00	520.00	520.00	552.00	520.00	552.00
3815195.46	516.00	520.00	520.00	520.00	487.00	520.00	520.00	520.00	520.00
3815120.46	520.00	520.00	520.00	520.00	520.00	485.00	487.00	520.00	520.00
3815045.46	520.00	520.00	520.00	520.00	520.00	485.00	485.00	520.00	520.00
3814970.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814895.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814820.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

3814745.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814670.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814595.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814520.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3814445.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814370.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814295.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814220.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814145.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3814070.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3813995.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813920.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813845.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813770.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813695.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813545.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813470.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813395.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813320.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813245.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813170.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	609.00	579.00	579.00	579.00
3816020.46	609.00	579.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00
3815495.46	609.00	609.00	609.00	609.00
3815420.46	609.00	609.00	609.00	609.00
3815345.46	609.00	609.00	609.00	609.00
3815270.46	579.00	579.00	579.00	609.00
3815195.46	534.00	534.00	534.00	552.00
3815120.46	520.00	520.00	520.00	520.00
3815045.46	520.00	520.00	520.00	520.00
3814970.46	520.00	520.00	520.00	520.00
3814895.46	520.00	520.00	520.00	520.00
3814820.46	520.00	520.00	520.00	520.00
3814745.46	520.00	520.00	520.00	520.00
3814670.46	520.00	520.00	520.00	520.00
3814595.46	520.00	520.00	520.00	520.00
3814520.46	524.00	520.00	520.00	520.00
3814445.46	520.00	520.00	520.00	520.00
3814370.46	520.00	520.00	520.00	520.00
3814295.46	520.00	520.00	520.00	520.00
3814220.46	520.00	520.00	520.00	520.00
3814145.46	520.00	520.00	520.00	520.00
3814070.46	520.00	520.00	520.00	520.00
3813995.46	520.00	520.00	520.00	520.00
3813920.46	520.00	520.00	520.00	520.00
3813845.46	520.00	520.00	520.00	520.00
3813770.46	520.00	520.00	520.00	520.00
3813695.46	520.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00
3813545.46	520.00	520.00	520.00	520.00
3813470.46	520.00	520.00	520.00	520.00
3813395.46	520.00	520.00	520.00	520.00

3813320.46	520.00	520.00	520.00	520.00
3813245.46	520.00	520.00	520.00	520.00
3813170.46	520.00	520.00	520.00	520.00

**MODELOPTs: RegDFAULT CONC ELEV

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

```
     ( 350508.9, 3814829.9,     424.8,     520.0,       0.0);         (
350283.7, 3815266.5,     441.1,     524.0,       0.0);
     ( 350539.8, 3814604.7,     430.8,     520.0,       0.0);         (
350467.6, 3814245.4,     385.7,     520.0,       0.0);
     ( 350008.7, 3813941.2,     374.5,     524.0,       0.0);         (
350147.9, 3813936.0,     378.9,     520.0,       0.0);
     ( 350557.0, 3814453.4,     397.3,     520.0,       0.0);         (
349200.8, 3815251.0,     455.4,     524.0,       0.0);
     ( 349173.3, 3815257.9,     461.5,     524.0,       0.0);         (
348862.6, 3814174.1,     380.0,     524.0,       0.0);
     ( 348862.6, 3815183.5,     439.9,     585.0,       0.0);         (
350494.7, 3815179.7,     481.9,     487.0,       0.0);
     ( 350487.0, 3814363.6,     425.7,     520.0,       0.0);         (
350216.2, 3814363.6,     442.9,     520.0,       0.0);
     ( 350216.2, 3814193.4,     425.3,     520.0,       0.0);         (
349991.9, 3813969.1,     381.1,     520.0,       0.0);
     ( 349794.7, 3813961.4,     363.8,     524.0,       0.0);         (
349597.4, 3814065.8,     372.8,     524.0,       0.0);
     ( 349121.7, 3814085.1,     372.9,     524.0,       0.0);
```

**MODELOPTs: RegDFAULT CONC ELEV

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
VOL1	349820.3	3814070.5	-28.63
VOL1	349895.3	3814070.5	-47.40
VOL1	349970.3	3814070.5	-19.91
VOL1	349745.3	3814145.5	-10.63
VOL1	349820.3	3814145.5	-81.46
VOL1	349895.3	3814145.5	-121.82
VOL1	349970.3	3814145.5	-67.45
VOL1	349745.3	3814220.5	-9.02
VOL1	349820.3	3814220.5	-78.38
VOL1	349895.3	3814220.5	-115.61
VOL1	349970.3	3814220.5	-64.84
VOL1	349820.3	3814295.5	-23.19
VOL1	349895.3	3814295.5	-41.08
VOL1	349970.3	3814295.5	-14.81
VOL2	349295.3	3814145.5	-15.85
VOL2	349370.3	3814145.5	-40.21
VOL2	349445.3	3814145.5	-16.17

	VOL2	349295.3	3814220.5
-63.61			
	VOL2	349370.3	3814220.5
-115.21			
	VOL2	349445.3	3814220.5
-64.13			
	VOL2	349295.3	3814295.5
-56.16			
	VOL2	349370.3	3814295.5
-98.43			
	VOL2	349445.3	3814295.5
-56.63			
	VOL2	349295.3	3814370.5
-1.91			
	VOL2	349370.3	3814370.5
-23.43			
	VOL2	349445.3	3814370.5
-2.20			
	VOL3	349595.3	3814520.5
-2.17			
	VOL3	349670.3	3814520.5
-38.30			
	VOL3	349745.3	3814520.5
-29.27			
	VOL3	349595.3	3814595.5
-43.76			
	VOL3	349670.3	3814595.5
-107.96			
	VOL3	349745.3	3814595.5
-87.35			
	VOL3	349820.3	3814595.5
-17.41			
	VOL3	349595.3	3814670.5
-39.55			
	VOL3	349670.3	3814670.5
-97.95			
	VOL3	349745.3	3814670.5
-80.35			
	VOL3	349820.3	3814670.5
-14.03			
	VOL3	349670.3	3814745.5
-26.68			
	VOL3	349745.3	3814745.5
-18.46			

**MODELOPTs: RegDFAULT CONC ELEV

*** 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
```

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2005 1 1 1
AND END DATE: 2005 12 31 24

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: RegDFAULT CONC ELEV

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

Surface file: met\burk6.sfc
Met Version: 12345
Profile file: met\burk6.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	-3.2	0.063	-9.000	-9.000	-999.	37.	7.1	0.53	1.00	1.00	0.90	285.	9.1	279.9	5.5
05	01	01	1	02	-2.6	0.063	-9.000	-9.000	-999.	37.	8.7	0.53	1.00	1.00	0.90	277.	9.1	279.9	5.5
05	01	01	1	03	-2.6	0.063	-9.000	-9.000	-999.	37.	8.7	0.53	1.00	1.00	0.90	335.	9.1	279.2	5.5
05	01	01	1	04	-2.6	0.063	-9.000	-9.000	-999.	37.	8.6	0.53	1.00	1.00	0.90	291.	9.1	278.8	5.5
05	01	01	1	05	-3.0	0.063	-9.000	-9.000	-999.	37.	7.4	0.53	1.00	1.00	0.90	334.	9.1	278.1	5.5
05	01	01	1	06	-0.5	0.028	-9.000	-9.000	-999.	11.	3.8	0.53	1.00	1.00	0.40	309.	9.1	278.8	5.5
05	01	01	1	07	-2.6	0.063	-9.000	-9.000	-999.	37.	8.6	0.53	1.00	1.00	0.90	313.	9.1	278.8	5.5
05	01	01	1	08	-0.4	0.028	-9.000	-9.000	-999.	11.	4.5	0.53	1.00	0.56	0.40	256.	9.1	279.2	5.5
05	01	01	1	09	0.1	0.128	0.022	0.005	4.	105.	-1838.7	0.53	1.00	0.33	0.90	298.	9.1	282.5	5.5
05	01	01	1	10	0.1	0.128	0.025	0.005	5.	105.	-1838.7	0.53	1.00	0.25	0.90	103.	9.1	286.4	5.5
05	01	01	1	11	0.1	0.310	0.027	0.005	7.	397.	-8888.0	0.53	1.00	0.22	2.20	136.	9.1	287.0	5.5
05	01	01	1	12	0.1	0.310	0.028	0.005	8.	397.	-8888.0	0.53	1.00	0.21	2.20	152.	9.1	287.0	5.5
05	01	01	1	13	0.1	0.254	0.029	0.005	9.	295.	-8888.0	0.53	1.00	0.21	1.80	187.	9.1	285.9	5.5
05	01	01	1	14	0.1	0.184	0.030	0.005	9.	182.	-5471.6	0.53	1.00	0.22	1.30	157.	9.1	287.0	5.5

```
 05 01 01   1 15    0.1  0.184  0.031  0.005   10.  181.  -5471.6  0.53   1.00
0.26    1.30  192.    9.1  286.4    5.5
 05 01 01   1 16    0.1  0.254  0.031  0.005   11.  294.  -8888.0  0.53   1.00
0.34    1.80  188.    9.1  285.9    5.5
 05 01 01   1 17   -4.9  0.092 -9.000 -9.000 -999.   88.     13.8  0.53   1.00
0.61    1.30  200.    9.1  285.4    5.5
 05 01 01   1 18   -2.6  0.063 -9.000 -9.000 -999.   37.      8.7  0.53   1.00
1.00    0.90  162.    9.1  284.9    5.5
 05 01 01   1 19   -3.0  0.063 -9.000 -9.000 -999.   37.      7.5  0.53   1.00
1.00    0.90  176.    9.1  284.9    5.5
 05 01 01   1 20   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  210.    9.1  284.2    5.5
 05 01 01   1 21   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  236.    9.1  284.2    5.5
 05 01 01   1 22   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  272.    9.1  283.8    5.5
 05 01 01   1 23   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  251.    9.1  283.1    5.5
 05 01 01   1 24   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  301.    9.1  282.5    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   279.9   99.0  -99.00  -99.00
 05 01 01 01    9.1 1  285.    0.90  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	0.55692	0.67588	0.66243	0.56439	0.50091	0.51209	0.51722	0.46059	0.50413
3816020.46	0.71856	0.77393	0.71601	0.56143	0.54686	0.54606	0.60360	0.52491	0.55950
3815945.46	0.86259	0.86139	0.75332	0.59104	0.63795	0.58899	0.69071	0.58425	0.62592
3815870.46	1.05065	1.02081	0.91970	0.82115	0.75855	0.70899	0.79715	0.70514	0.70332
3815795.46	1.14312	1.16501	1.12650	1.05088	0.85606	1.00223	0.97712	0.85796	0.82053
3815720.46	1.36533	1.30810	1.19364	0.90182	0.86187	1.28926	1.13504	1.02299	0.96321
3815645.46	1.50124	1.52756	1.36925	0.99925	1.01643	1.48850	1.35139	1.30610	1.06099
3815570.46	1.44526	1.79726	1.60706	1.06243	1.17320	2.04087	1.60357	1.10656	0.90850
3815495.46	1.51603	2.05048	1.74039	1.05123	1.79612	2.08135	1.43722	0.99252	0.87971
3815420.46	2.17849	2.37381	1.77617	1.14515	2.40474	2.27473	1.33585	1.03685	1.22885
3815345.46	2.51865	2.77315	1.92543	1.46341	3.08630	2.44373	1.80992	1.88850	1.42854
3815270.46	2.98527	3.08890	2.09229	2.12849	3.90112	3.04412	2.08095	1.37503	1.13216
3815195.46	3.37106	3.49255	2.76677	2.35307	4.54063	4.42628	3.19787	1.76308	1.30442
3815120.46	3.66591	3.66603	3.14615	2.43209	3.61564	6.31204	4.53824	3.07827	1.87216
3815045.46	3.94914	3.97644	3.79639	3.15050	3.58842	7.76123	6.75708	5.27075	3.11643

3814970.46	3.92954	3.54205	2.97991	2.73714	2.76406	6.87973	9.17157	5.88838	3.88932
3814895.46	2.01242	1.97410	1.69001	2.14051	2.90461	4.93682	11.22108	11.00159	7.34889
3814820.46	1.99405	2.46266	1.87447	2.78871	3.50693	4.11868	11.24719	12.35423	7.54835
3814745.46	3.09871	4.17945	2.95697	4.35020	4.73676	4.56632	10.13718	12.52817	13.39665
3814670.46	5.11205	5.58796	4.96322	4.72876	7.36427	8.67709	11.64496	13.79647	14.58471
3814595.46	4.94826	6.05945	7.18310	7.61875	7.54859	10.29971	11.73260	13.29208	13.15749
3814520.46	4.62825	5.56821	6.72407	7.66465	9.54440	10.65444	11.91269	13.40934	9.22549
3814445.46	4.40359	5.23488	6.11356	6.97021	9.00045	10.02046	11.20057	12.59417	12.59913
3814370.46	2.83798	4.22147	5.07700	6.02660	8.43818	9.34693	10.42927	11.63360	13.10533
3814295.46	0.69619	1.61193	3.12707	4.84719	5.54437	6.68470	9.66346	10.75921	12.01740
3814220.46	0.34477	1.01211	2.19835	1.93815	2.73072	3.60502	8.88292	9.96508	10.99717
3814145.46	0.48398	0.79037	0.50857	0.33431	0.50707	2.34417	5.00900	9.23374	10.22494
3814070.46	0.42203	0.18732	0.09402	0.11307	0.32581	1.93254	3.97188	3.90321	9.58368
3813995.46	0.12461	0.07485	0.06708	0.09546	0.18496	0.73708	0.98853	1.58553	4.98363
3813920.46	0.25396	0.16386	0.11846	0.06723	0.11221	0.30612	0.24474	0.44328	1.85940
3813845.46	0.81148	0.46554	0.12544	0.06905	0.08240	0.08755	0.11824	0.17541	0.46905
3813770.46	1.07210	0.92976	0.38885	0.11111	0.13685	0.12029	0.14250	0.17875	0.58927
3813695.46	1.70627	1.04220	0.26801	0.16273	0.24236	0.28999	0.57594	0.82683	3.88375
3813620.46	1.99669	1.61333	0.50556	0.18341	0.41886	1.02664	1.77892	2.99876	2.77886
3813545.46	1.84298	0.53173	0.14311	0.13482	0.50334	1.00753	0.73032	2.06223	1.45012
3813470.46	0.73777	0.15624	0.37543	0.37006	0.28989	0.18293	0.19876	1.09102	0.65801
3813395.46	1.25989	0.80415	1.52279	1.21291	0.91666	0.20397	0.15847	0.43748	0.20170
3813320.46	3.54840	3.73293	2.07356	1.89317	0.88963	0.61574	0.14336	0.12113	0.13857
3813245.46	2.02447	1.87659	1.19226	0.63375	0.14042	0.11661	0.08939	0.06898	0.07935
3813170.46	0.97116	0.69113	0.26791	0.12083	0.10467	0.14781	0.07347	0.06728	0.10537

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	0.50030	0.41698	0.47231	0.39473	0.39325	0.36539	0.37612	0.45183	0.44571
3816020.46	0.53148	0.45946	0.52649	0.44125	0.47314	0.40834	0.46472	0.49942	0.47466
3815945.46	0.59879	0.58360	0.59792	0.52168	0.54386	0.44332	0.49805	0.56580	0.52160
3815870.46	0.68182	0.66667	0.65093	0.62861	0.62570	0.56423	0.54989	0.63084	0.70041
3815795.46	0.77934	0.73107	0.76553	0.75378	0.72289	0.66204	0.62252	0.61850	0.73642
3815720.46	0.85611	0.83543	0.93013	0.87945	0.82626	0.77032	0.71200	0.70505	0.81697
3815645.46	0.93654	0.86551	0.97762	1.02373	0.95453	0.88217	0.77212	0.72030	0.74968
3815570.46	0.90506	0.90530	1.02796	1.20886	1.08098	0.89967	0.75721	0.70584	0.71918
3815495.46	0.89026	0.96535	1.02282	1.38271	1.12627	0.94170	0.85637	0.80859	0.67480
3815420.46	0.97323	1.04408	1.32256	1.70496	1.38757	1.20278	1.02541	0.92402	0.82884
3815345.46	1.09934	1.20009	1.71806	1.83850	1.23724	1.08350	1.06131	0.84965	0.81234
3815270.46	1.37634	1.48905	2.00439	2.48990	1.42198	1.34116	1.21339	0.97266	1.07551
3815195.46	1.91797	2.14281	3.74244	2.40149	1.88551	1.52368	1.36935	1.23256	1.33191
3815120.46	2.94168	3.62347	4.39272	3.17287	2.19724	1.66316	1.53377	1.60025	1.71556
3815045.46	3.81573	5.46618	4.92817	2.37184	2.40292	2.14954	1.98919	2.13163	2.34980

3814970.46	3.79396	8.82260	8.07477	5.74542	3.42262	2.19295	2.71243	3.29654	3.09569	
3814895.46	5.84821	10.77230	7.51635	4.75386	3.28680	3.03373	4.05094	5.71317	3.09878	
3814820.46	11.55541	16.25646	10.96131	7.19762	8.45458	6.93604	6.51076	8.02794	5.01026	
3814745.46	15.49521	16.62229	7.72908	11.57150	10.55607	10.46393	12.78340	10.08557	4.03430	
3814670.46	17.08292	16.09646	11.40515	16.26071	23.17093	20.42721	24.39988	14.06745	6.78598	
3814595.46	14.98258	7.17714	11.73145	26.77827	33.09217	31.80537	38.62953	27.00408	15.96830	
3814520.46	6.01514	8.40980	13.47426	26.17979	32.77270	36.43339	46.38740	47.57169	17.98541	
3814445.46	13.39012	16.56235	17.72112	21.17798	31.34711	38.29321	43.87312	24.29510	20.38845	
3814370.46	14.98180	16.95129	19.41914	23.48042	28.36780	35.44799	18.31530	27.13995	32.02681	
3814295.46	13.47492	15.16218	17.42347	20.38391	24.71188	30.13502	33.60784	43.92575	29.55274	
3814220.46	12.17845	13.65365	15.44959	17.80787	20.80559	24.65856	30.58390	41.93993	46.46875	
3814145.46	11.22771	12.39445	13.77596	15.61549	17.84106	20.82201	24.69198	30.71179	41.98934	
3814070.46	10.31715	11.44896	12.82561	14.14262	15.89900	18.12801	21.24720	25.60491	32.11238	
3813995.46	10.04954	11.25385	12.43569	12.97972	14.43046	16.36857	19.01544	22.59054	27.49687	
3813920.46	9.44673	10.19278	11.22285	12.36552	13.66842	15.47619	17.60554	20.17035	24.10522	
3813845.46	9.02869	9.96496	11.11323	12.61489	7.09678	16.66544	16.74357	18.62551	21.23981	
3813770.46	8.63965	0.82846	0.70352	1.55052	1.61584	15.37361	15.36928	17.26772	19.02648	
3813695.46	2.47546	0.67774	0.11961	0.23117	1.34118	14.04963	15.67366	16.28224	16.84185	
3813620.46	2.84943	0.53225	0.18288	0.16044	0.28712	0.67695	14.09469	15.75114	16.78460	
3813545.46	0.95201	1.38167	0.48644	0.25772	1.11278	4.92208	3.71116	0.54937	2.42707	
3813470.46	0.25794	0.45415	0.56347	0.24650	0.35396	1.61038	0.99186	0.15992	0.71789	
3813395.46	0.14391	0.12522	0.30897	0.27410	0.97692	0.48688	4.44617	3.03176	0.49269	
3813320.46	0.08822	0.12509	0.17037	0.23076	2.46362	4.63233	9.37095	10.02273	3.98966	
3813245.46	0.14851	0.28421	0.98663	0.65340	0.95322	0.98508	4.80736	8.59035	9.55326	
3813170.46	0.16346	0.36163	0.99508	2.87015	2.06544	7.32175	7.72285	7.91400	7.99212	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	0.48079	0.49761	0.58565	0.65239	0.64943	0.64896	0.66170	0.92577	0.71759
3816020.46	0.58106	0.60743	0.62629	0.77957	0.86185	0.95670	0.75451	0.93951	1.15892
3815945.46	0.66610	0.85146	0.80971	0.92721	1.07179	1.20513	1.24867	1.09432	1.56329
3815870.46	0.70743	0.94887	1.11269	1.24512	1.36209	1.48303	1.70327	1.67020	1.88416
3815795.46	0.90851	1.04956	1.21868	1.40729	1.61879	1.92945	2.27579	2.93494	3.33932
3815720.46	0.88624	0.82434	0.93263	1.52866	1.80011	2.27660	2.10946	2.42076	4.22911
3815645.46	0.84705	0.80426	1.24960	1.67101	1.64029	1.70219	2.27207	3.03261	4.23125
3815570.46	0.83547	0.86030	1.23597	1.30772	1.38838	1.75379	1.77816	2.60765	2.84346
3815495.46	0.81788	0.86641	1.08195	0.99519	1.29106	1.59475	1.31164	1.47139	1.80055
3815420.46	0.82620	0.85413	0.93180	1.14553	1.30442	1.31913	1.22239	1.37376	1.29783
3815345.46	0.74210	0.80160	0.85358	1.11797	1.21738	1.23782	1.18917	1.25102	1.07266
3815270.46	0.91522	1.00916	0.97487	1.07266	1.05393	1.18587	1.19560	1.13208	0.96888
3815195.46	1.25631	1.15207	1.19277	1.40484	1.41126	1.35995	1.54123	1.36560	0.98125
3815120.46	1.55806	1.39638	1.21688	1.66227	1.72885	1.63459	1.80106	1.50944	1.11527
3815045.46	1.93734	1.63873	1.65147	1.79571	2.20978	2.04416	2.12592	1.68266	1.31040

3814970.46	2.02867	1.89956	2.25524	2.08294	2.61727	2.63519	2.43766	1.96775	1.31949
3814895.46	2.68948	2.61417	3.06623	2.53266	3.21199	3.45827	2.57609	1.72915	1.36009
3814820.46	3.24566	3.45322	4.36815	3.55750	4.29964	3.90107	2.77404	2.14889	1.84758
3814745.46	3.63983	3.99796	5.53009	4.99481	6.38080	4.92449	3.89455	3.09265	2.56442
3814670.46	6.92445	9.09688	7.49691	8.54569	9.99285	7.82818	6.08341	4.45318	3.34111
3814595.46	12.98034	21.72236	22.06831	16.29408	15.92833	11.13916	8.22529	5.83256	3.94499
3814520.46	15.52065	44.50268	39.88922	42.06659	20.09735	9.88808	8.12258	5.52123	4.18718
3814445.46	22.34859	90.09424	124.73030	84.24176	36.57103	21.51309	12.54752	9.92562	4.81402
3814370.46	55.91366	140.83505	185.03203	70.87599	28.83676	30.96664	27.87342	12.50569	9.24515
3814295.46	90.14131	144.31793	123.38057	45.88539	0.00000	0.00000	0.00000	19.40953	10.13198
3814220.46	84.74013	120.41754	47.53486	0.00000	0.00000	0.00000	0.00000	41.18509	13.47456
3814145.46	58.13294	87.05842	151.67997	0.00000	0.00000	0.00000	0.00000	113.18636	137.16859
3814070.46	42.77644	61.04964	86.91243	166.56186	0.00000	0.00000	0.00000	55.57275	189.03943
3813995.46	34.79970	45.50866	61.45054	83.85195	110.08425	158.19225	88.92416	151.75159	119.01429
3813920.46	29.32085	36.35217	45.56432	56.54283	67.60819	77.54902	93.07866	84.55072	90.69680
3813845.46	24.75138	29.21769	34.65422	40.33282	45.26134	49.15947	52.12149	56.14663	59.10209
3813770.46	20.95970	23.81249	27.08513	30.23077	32.71475	34.50799	36.02363	37.69380	45.69070
3813695.46	17.92865	19.79926	21.76086	23.57231	24.95348	25.91156	26.71020	34.84943	32.45904
3813620.46	17.06969	17.84224	17.89436	18.97678	19.77500	20.31734	20.79548	21.38647	22.00739
3813545.46	7.34985	15.97247	15.30259	15.86799	16.17727	16.47323	16.75241	17.07207	17.52183
3813470.46	14.43435	14.50793	13.67016	14.21852	13.74114	13.71215	13.86601	14.05802	14.35708
3813395.46	2.43635	13.54494	14.17719	13.40676	12.06049	11.69101	11.75706	11.86854	12.03407
3813320.46	11.18037	6.55991	1.49723	5.89425	11.95733	10.68843	10.52938	10.23222	10.27064
3813245.46	9.38011	10.14683	10.53208	2.00264	3.63159	11.13811	9.62287	9.24657	9.08896
3813170.46	8.42480	8.02449	8.38262	9.71776	5.25288	3.08316	9.87410	8.83425	8.14292

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	0.85397	0.55400	0.50036	0.88372	0.51851	0.61129	0.35106	0.46802	2.87028
3816020.46	1.14465	1.13868	0.97943	0.95124	1.27222	1.22447	0.73428	1.07583	1.70661
3815945.46	1.49575	1.72954	2.54058	3.33767	2.45245	2.92898	2.22254	3.83526	3.02484
3815870.46	2.23820	2.68977	4.24016	4.77821	3.88117	4.13640	3.21110	5.15887	4.07537
3815795.46	3.43208	3.85317	4.38709	5.26381	5.98873	5.12136	5.63887	5.46320	5.22288
3815720.46	4.94022	5.08469	5.44238	6.62671	6.44279	6.22236	5.98069	5.68963	5.41125
3815645.46	5.03498	6.22824	6.33560	7.13881	6.86760	6.46591	6.16183	5.74286	5.43914
3815570.46	2.42350	5.62518	6.33875	6.06962	7.40863	6.90061	6.70585	6.11288	5.65801
3815495.46	1.15708	2.00698	3.53892	1.52239	4.66968	6.65904	7.30627	6.69853	6.15328
3815420.46	0.94981	1.54498	1.90959	3.56637	5.80446	6.81556	7.83787	7.30917	6.70462
3815345.46	0.89494	0.90075	1.44194	2.37204	2.71273	3.91795	7.25456	7.96061	7.30553
3815270.46	1.00458	1.04361	1.32307	1.13522	0.82888	1.28732	3.49150	1.18863	5.91077
3815195.46	0.94519	0.93846	0.93394	0.85149	0.73306	0.72761	0.72322	1.20674	4.30199
3815120.46	1.09468	0.94804	0.89961	0.88765	0.84583	0.73327	0.69392	0.72945	1.30858
3815045.46	1.16187	1.17735	1.08351	0.96390	0.99685	0.76905	0.69977	0.75540	0.75876

3814970.46	1.35390	1.20603	1.33687	1.08651	1.22982	0.85736	0.84774	0.70868	1.38210
3814895.46	1.42449	1.46914	1.33308	1.43290	1.43371	1.12906	1.28964	1.30262	2.62998
3814820.46	1.67021	1.66790	1.61114	1.43407	1.63722	2.18113	3.51479	7.93583	10.58890
3814745.46	1.91336	1.69899	1.38214	1.22465	1.16491	1.06949	1.19167	1.09849	7.10723
3814670.46	2.65592	1.87529	1.67986	1.55434	1.28302	1.10177	1.85511	3.12519	2.47254
3814595.46	2.88988	2.11953	2.05163	2.21843	2.78510	1.33068	3.03277	18.75684	15.33537
3814520.46	3.08255	2.27965	2.59932	5.75567	12.17472	13.49510	6.72827	19.96543	16.41931
3814445.46	3.50113	2.66109	2.61016	2.80847	4.94413	27.22118	24.62092	21.02186	22.05460
3814370.46	4.17308	5.15511	8.86355	7.64059	2.53750	4.93026	24.01552	14.71170	20.21703
3814295.46	5.58258	7.48722	26.53126	56.53977	37.47539	19.22396	23.52545	20.07655	21.83056
3814220.46	8.16918	5.45858	31.41093	55.96831	43.98227	36.65163	31.78016	6.21308	12.39825
3814145.46	8.65738	16.47662	9.06881	75.46756	42.82611	32.62356	33.41029	26.99667	29.90415
3814070.46	18.42001	15.07215	14.41656	56.42165	41.59164	31.87424	27.97603	24.92468	21.92802
3813995.46	112.23673	82.85379	12.72473	53.47084	38.45262	32.62523	26.34680	22.28809	20.38436
3813920.46	102.08041	13.87173	13.10754	50.93116	43.03653	29.54309	25.36743	21.30532	18.64880
3813845.46	62.13785	52.70411	48.52569	33.91238	47.29925	33.68430	29.61690	21.80526	18.60596
3813770.46	46.47752	41.86268	41.24945	34.47860	32.56288	29.72663	37.45684	34.94111	18.45833
3813695.46	29.16839	29.71137	29.51757	25.72975	24.90623	27.12263	24.30812	20.26328	15.75634
3813620.46	22.57460	22.88624	23.49167	21.36212	20.73323	20.37080	20.50181	16.83191	14.26759
3813545.46	17.99198	18.28745	18.17994	17.85103	18.34108	16.62008	19.48915	14.90297	13.01455
3813470.46	14.73376	15.04962	15.15624	15.04988	14.65005	15.65657	15.13621	13.56252	12.02374
3813395.46	12.31328	12.59529	12.79133	12.81749	12.63611	12.51560	13.78277	14.46962	10.88809
3813320.46	10.46633	10.69181	10.90534	11.02623	11.00673	10.86163	11.50388	10.61623	9.90712
3813245.46	9.03953	9.20589	9.40125	9.56112	9.62196	9.55306	9.39896	10.25556	8.85168
3813170.46	7.96892	8.05134	8.19602	8.34963	8.45827	8.46636	8.37961	8.45700	8.11199

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	1.21630	0.74370	0.80618	2.19831
3816020.46	3.33755	1.38662	3.06220	3.45882
3815945.46	4.56561	3.09306	3.72721	4.00219
3815870.46	4.82156	3.93522	4.29527	4.10252
3815795.46	5.07832	4.71884	4.73073	4.17811
3815720.46	5.18182	4.97117	4.54517	4.36308
3815645.46	5.23927	5.05144	4.70635	4.35321
3815570.46	5.34493	5.17841	4.93702	4.78982
3815495.46	5.67897	5.26635	4.99493	4.80452
3815420.46	6.10397	5.54936	5.23439	4.88436
3815345.46	6.56003	6.18684	5.65535	5.17403
3815270.46	7.66755	7.34964	6.29321	5.57864
3815195.46	6.29654	7.65350	7.41259	6.77854
3815120.46	1.64981	1.53899	2.19409	7.43542
3815045.46	1.11365	1.97302	7.41238	7.07730
3814970.46	1.36251	1.13895	1.68785	5.81701
3814895.46	6.28728	1.94584	3.95609	6.78454
3814820.46	11.66718	6.87110	4.63259	10.14171
3814745.46	13.32101	11.90531	11.42714	7.02372
3814670.46	13.68962	12.87013	11.75245	10.21921
3814595.46	15.00049	15.27336	14.10646	11.13537
3814520.46	13.88977	12.58585	12.50516	12.16760
3814445.46	17.17671	14.16226	11.45973	12.25307
3814370.46	16.68691	15.09816	11.78053	11.43156
3814295.46	17.29540	13.77033	12.26383	11.61267
3814220.46	18.54167	16.07784	12.81627	11.42665
3814145.46	29.53711	16.25496	15.68752	12.00472
3814070.46	21.63944	19.68600	16.52654	12.40045
3813995.46	17.20749	15.34723	14.76690	12.96982
3813920.46	16.56174	14.78697	13.31636	12.07327
3813845.46	15.88758	14.26564	12.85621	11.69180

3813770.46	16.77606	14.71833	12.38190	11.24354
3813695.46	14.18541	12.89131	11.69702	10.73504
3813620.46	13.07212	12.00872	11.06108	10.21084
3813545.46	12.08475	11.21524	10.41594	9.67912
3813470.46	11.08447	10.40210	9.74995	9.12907
3813395.46	10.12637	9.59413	9.07291	8.56495
3813320.46	9.23226	8.81394	8.39981	7.98978
3813245.46	8.42039	8.08128	7.75071	7.42348
3813170.46	7.69452	7.41867	7.14898	6.88158

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

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

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
350508.88	3814829.88	1.74197	350283.70	3815266.49	1.06372
350539.82	3814604.70	1.61839	350467.63	3814245.45	47.52170
350008.68	3813941.20	100.94869	350147.91	3813936.04	90.69540
350557.01	3814453.44	26.51820	349200.78	3815251.02	1.42525
349173.28	3815257.89	1.34366	348862.58	3814174.11	11.81404
348862.58	3815183.55	2.33245	350494.71	3815179.68	0.74689
350486.97	3814363.62	2.88577	350216.24	3814363.62	4.30591
350216.24	3814193.45	7.13094	349991.92	3813969.12	138.94132
349794.67	3813961.39	81.24363	349597.42	3814065.81	60.11484
349121.71	3814085.15	15.60047			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28
3816095.5	49.79276 (05070207)	52.92614 (05031509)	56.84505 (05022008)	55.32157 (05022008)	41.91012 (05111210)
3816020.5	53.66854 (05070207)	50.85220 (05070207)	54.69915 (05031509)	55.23186 (05031508)	51.31685 (05031508)
3815945.5	54.51869 (05100408)	55.12524 (05070207)	51.30234 (05070207)	55.87349 (05031509)	56.76859 (05022008)
3815870.5	50.86328 (05100408)	56.03421 (05100408)	56.47103 (05070207)	52.82996 (05031509)	57.81261 (05031509)
3815795.5	56.04702 (05052207)	52.27206 (05100408)	57.54174 (05100408)	57.93011 (05070207)	55.35052 (05031509)
3815720.5	54.36593 (05052207)	57.65081 (05052207)	53.64983 (05100408)	58.68933 (05100408)	58.92291 (05070207)
3815645.5	49.20544 (05121724)	55.23262 (05052207)	59.19835 (05052207)	55.00285 (05052207)	60.37050 (05100408)
3815570.5	56.03311 (05081607)	59.34711 (05121724)	55.96426 (05052207)	60.36891 (05052207)	57.05886 (05052207)
3815495.5	58.24389 (05031311)	64.83113 (05030424)	52.84503 (05081607)	55.80292 (05052207)	62.67614 (05052207)
3815420.5	62.34046 (05102501)	73.61604 (05122620)	61.16593 (05081607)	55.70311 (05081607)	75.21195 (05010218)
3815345.5	76.77916 (05070706)	82.77478 (05102501)	61.80266 (05031311)	62.74661 (05081607)	93.67686 (05030424)
3815270.5	91.56335 (05022004)	92.89403 (05070706)	54.05417 (05031311)	62.49415 (05031311)	116.72587 (05011018)
3815195.5	118.57343 (05063006)	114.50545 (05063006)	71.87413 (05070706)	58.23891 (05070706)	132.13808 (05030501)
3815120.5	140.72895 (05031307)	120.59544 (05031307)	103.06418 (05063006)	69.56396 (05063006)	96.47311 (05070706)
3815045.5	152.39862 (05123120)	145.58855 (05031307)	126.11950 (05031307)	96.79076 (05063006)	107.71846 (05063006)

3814970.5	194.58604	(05062806)	133.64761	(05062806)	97.12557	(05123120)	81.45008 (05070406)	73.46816 (05063006)
3814895.5	91.82311	(05052706)	77.26327	(05052706)	61.68388	(05122309)	57.87396 (05120309)	81.78611 (05123120)
3814820.5	98.49188	(05102207)	113.18698	(05052706)	85.64713	(05052706)	106.10191 (05052706)	125.16709 (05062806)
3814745.5	208.08486	(05032507)	232.42978	(05032507)	142.22451	(05102207)	197.45816 (05050724)	207.34014 (05050724)
3814670.5	395.27379	(05030804)	396.45977	(05030804)	331.34826	(05032507)	287.67029 (05032507)	413.00690 (05042924)
3814595.5	416.55785	(05062204)	423.36126	(05062204)	402.36751	(05062204)	462.16964 (05030804)	485.36861 (05030804)
3814520.5	414.63277	(05122820)	406.23043	(05122820)	347.30210	(05122820)	337.21536 (05062204)	195.16360 (05031001)
3814445.5	416.35199	(05122823)	404.71295	(05122823)	362.42954	(05051403)	343.98661 (05051403)	198.36553 (05030701)
3814370.5	375.78173	(05051902)	440.51343	(05052203)	437.52126	(05052203)	397.96664 (05052203)	200.21256 (05110622)
3814295.5	119.73681	(05061001)	254.70265	(05010205)	436.33066	(05041424)	465.31932 (05041424)	474.68178 (05100303)
3814220.5	85.47770	(05060406)	199.04382	(05010205)	392.02606	(05123021)	334.81830 (05010205)	440.25457 (05123021)
3814145.5	108.30951	(05093001)	167.91297	(05093001)	105.50856	(05093001)	69.31139 (05090724)	95.11487 (05093001)
3814070.5	114.81908	(05041301)	52.21173	(05051401)	36.81177	(05091607)	39.04209 (05091607)	87.49354 (05021924)
3813995.5	44.70593	(05021924)	46.44967	(05021011)	50.41896	(05021011)	56.37152 (05021011)	74.65592 (05123122)
3813920.5	122.94281	(05123122)	89.26626	(05123122)	68.46049	(05021011)	69.15177 (05021011)	71.86205 (05021011)
3813845.5	316.78548	(05061924)	184.72524	(05111322)	61.88192	(05021011)	57.93911 (05021011)	59.54014 (05120409)
3813770.5	366.07407	(05011219)	356.76586	(05010622)	191.36112	(05010622)	69.34016 (05120409)	71.92709 (05120409)
3813695.5	376.40334	(05010622)	372.31316	(05010622)	132.60624	(05020519)	75.18348 (05020519)	104.45072 (05020519)
3813620.5	271.90463	(05010622)	270.44903	(05020519)	194.82763	(05121703)	100.45095 (05121703)	240.92669 (05121703)
3813545.5	273.85215	(05121703)	268.59624	(05121703)	101.67728	(05121703)	95.25447 (05121703)	277.95089 (05121703)
3813470.5	345.21353	(05121703)	119.85768	(05121703)	225.61467	(05121703)	189.83057 (05112218)	141.11709 (05112218)
3813395.5	366.59564	(05030805)	362.64550	(05030805)	414.99556	(05030805)	407.83965 (05062302)	391.25855 (05062302)
3813320.5	112.99638	(05011702)	121.58372	(05030624)	348.45767	(05062302)	392.43033 (05062302)	380.53649 (05112219)
3813245.5	273.26466	(05062302)	327.98739	(05062302)	387.23784	(05112219)	319.52710 (05112219)	70.43523 (05123022)
3813170.5	341.76710	(05062302)	335.45139	(05112219)	150.25066	(05112219)	67.51423 (05123022)	58.86888 (05032524)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348545.28	348620.28	348695.28	348770.28	348845.28
3816095.5	53.09140 (05111210)	55.46042 (05111210)	28.02822 (05122615)	56.81828 (05041708)	56.84184 (05101210)
3816020.5	46.96728 (05111210)	56.55611 (05111210)	57.03523 (05062907)	57.90423 (05081707)	57.85797 (05041708)
3815945.5	50.56414 (05031508)	52.39668 (05111210)	58.34897 (05111210)	58.06572 (05062907)	59.14807 (05081707)
3815870.5	64.37358 (05022008)	69.39494 (05022008)	56.68477 (05111210)	59.73740 (05111210)	59.94349 (05081707)
3815795.5	69.99918 (05022008)	85.13405 (05022008)	68.58032 (05022008)	60.62700 (05111210)	61.85515 (05062907)
3815720.5	58.48147 (05031509)	81.09704 (05022008)	87.40549 (05022008)	68.96056 (05022008)	63.19879 (05111210)
3815645.5	66.01381 (05060206)	63.94520 (05022008)	93.89873 (05022008)	87.41006 (05022008)	60.39255 (05111210)
3815570.5	101.47670 (05060206)	66.99401 (05060206)	63.10269 (05031509)	67.98095 (05022008)	65.99167 (05022008)
3815495.5	83.70343 (05060206)	64.15340 (05100408)	62.90065 (05070207)	64.56654 (05031509)	64.86650 (05031508)
3815420.5	71.08710 (05060205)	61.18449 (05052207)	65.19997 (05100408)	64.61289 (05070207)	66.79570 (05031509)
3815345.5	71.19887 (05010218)	65.91644 (05052207)	63.94768 (05052207)	67.71785 (05100408)	65.34216 (05070207)
3815270.5	86.15998 (05030424)	58.08939 (05052207)	66.99030 (05052207)	64.89141 (05052207)	69.51087 (05100408)
3815195.5	126.98338 (05122620)	83.68301 (05030424)	58.86316 (05081607)	68.29477 (05052207)	68.70148 (05052207)
3815120.5	206.23671 (05030501)	120.46792 (05122620)	71.99103 (05011018)	63.71515 (05081607)	71.71224 (05052207)
3815045.5	231.56171 (05051301)	202.85259 (05030501)	127.83571 (05122620)	72.69897 (05081607)	84.97860 (05121724)

3814970.5	219.98283	(05031307)	283.99156	(05101923)	145.35661	(05070706)	80.14337	(05102501)	75.29231	(05110709)
3814895.5	148.51669	(05031307)	419.30124	(05100304)	355.29575	(05071403)	174.13158	(05022004)	126.44929	(05070706)
3814820.5	127.67511	(05062806)	459.65961	(05012221)	459.32927	(05042206)	206.74551	(05031307)	292.61515	(05031307)
3814745.5	178.82471	(05062806)	441.44573	(05110701)	510.30767	(05010621)	491.22353	(05012221)	517.03976	(05042206)
3814670.5	453.99156	(05031006)	522.07090	(05031006)	549.54561	(05122303)	584.81776	(05031702)	619.52208	(05010621)
3814595.5	444.93072	(05030804)	465.19254	(05042924)	513.55413	(05042924)	588.64610	(05031006)	595.99269	(05010206)
3814520.5	208.67268	(05062202)	223.31015	(05101222)	240.00955	(05122721)	475.34969	(05032507)	287.29296	(05032507)
3814445.5	212.41935	(05030701)	227.64796	(05030803)	244.18745	(05031001)	496.74655	(05062204)	648.83635	(05062204)
3814370.5	214.44222	(05110622)	230.15719	(05032603)	247.51828	(05032603)	266.01787	(05041701)	288.69640	(05041701)
3814295.5	428.72669	(05100303)	232.02572	(05122421)	249.67497	(05032601)	269.48577	(05032601)	290.28620	(05032601)
3814220.5	518.15176	(05123021)	232.44811	(05122121)	251.40373	(05122121)	270.19922	(05122121)	290.41861	(05122121)
3814145.5	423.88079	(05062503)	503.48464	(05062503)	250.62450	(05093001)	270.73915	(05093001)	291.27610	(05093001)
3814070.5	445.36318	(05061821)	549.20344	(05061821)	591.28639	(05071402)	270.86774	(05030702)	289.53481	(05030702)
3813995.5	214.55953	(05123122)	274.19837	(05123023)	414.00326	(05123023)	566.16723	(05123023)	280.28500	(05073102)
3813920.5	123.30533	(05123122)	96.18348	(05123122)	143.88386	(05073102)	505.71289	(05111322)	282.22062	(05122304)
3813845.5	66.57037	(05120409)	73.02631	(05120409)	77.69580	(05120409)	179.17584	(05010622)	277.30020	(05020519)
3813770.5	71.81074	(05120409)	69.73095	(05120409)	66.65626	(05121005)	241.76734	(05121703)	270.22924	(05082604)
3813695.5	130.98387	(05121703)	273.51816	(05121703)	375.88216	(05121703)	479.94404	(05121703)	602.61722	(05030805)
3813620.5	422.12030	(05121703)	481.35439	(05121703)	522.18705	(05030805)	573.06286	(05030805)	597.59710	(05062302)
3813545.5	409.13963	(05030805)	322.78448	(05030805)	524.13766	(05062302)	492.73343	(05062302)	373.46064	(05112219)
3813470.5	91.75767	(05031420)	96.95837	(05032119)	413.29063	(05112219)	289.57368	(05112219)	113.13201	(05123022)
3813395.5	107.65964	(05030624)	80.40405	(05030624)	202.29643	(05041101)	94.28081	(05123022)	74.30964	(05120310)
3813320.5	299.71992	(05112219)	73.23628	(05032524)	64.04259	(05120310)	73.16080	(05120310)	70.41889	(05120310)
3813245.5	64.43397	(05032524)	64.88384	(05120310)	69.93064	(05120310)	65.52523	(05120310)	81.93815	(05062804)
3813170.5	77.52686	(05082724)	67.57157	(05120310)	60.46634	(05120310)	60.58324	(05062804)	70.07465	(05062804)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348920.28	348995.28	349070.28	349145.28	349220.28
3816095.5	28.88947 (05122210)	58.39345 (05051409)	29.40414 (05011209)	29.60292 (05052008)	26.51571 (05052008)
3816020.5	29.35449 (05061908)	57.96782 (05051409)	30.26233 (05122615)	60.29894 (05102108)	29.24253 (05052008)
3815945.5	59.75192 (05101210)	60.77410 (05122210)	60.73461 (05051409)	61.72432 (05011209)	31.03989 (05052008)
3815870.5	61.31002 (05041708)	61.88889 (05061908)	61.17066 (05051409)	62.18290 (05011209)	62.89725 (05102108)
3815795.5	62.49726 (05081707)	63.19255 (05101210)	63.94408 (05122210)	64.34645 (05051409)	64.49017 (05102108)
3815720.5	62.14364 (05062907)	64.84349 (05041708)	65.39478 (05061908)	64.91642 (05051409)	66.11922 (05011209)
3815645.5	64.27289 (05062907)	65.70091 (05081707)	69.77674 (05053106)	67.32920 (05122210)	67.38311 (05051409)
3815570.5	64.51228 (05111210)	66.68435 (05062907)	71.19230 (05053106)	69.84710 (05053106)	68.26313 (05051409)
3815495.5	61.20901 (05022008)	67.94085 (05111210)	68.38196 (05081707)	70.56869 (05053106)	70.13973 (05122210)
3815420.5	69.28145 (05022008)	83.19590 (05022008)	70.83345 (05062907)	72.13090 (05053106)	72.14342 (05053106)
3815345.5	70.07243 (05022008)	117.85010 (05022008)	97.15719 (05022008)	71.89402 (05062907)	72.47892 (05041708)
3815270.5	67.37370 (05070207)	118.82478 (05022008)	146.65792 (05022008)	74.17988 (05111210)	74.74142 (05081707)
3815195.5	72.51832 (05100408)	133.25285 (05022008)	136.80528 (05022008)	111.11904 (05022008)	76.59792 (05062907)
3815120.5	113.77626 (05060206)	163.79581 (05060206)	123.18214 (05022008)	128.93218 (05022008)	76.16034 (05111210)
3815045.5	134.14858 (05052206)	151.10474 (05060206)	77.99887 (05070207)	107.27675 (05022008)	114.93872 (05022008)

3814970.5	211.21682	(05030424)	212.32076	(05052206)	163.86239	(05060206)
85.13886	(05060206)	83.26717	(05031509)			
3814895.5	273.98479	(05060304)	157.75566	(05030424)	85.07803	(05010218)
83.39795	(05052207)	86.44716	(05070207)			
3814820.5	463.15147	(05073103)	252.06056	(05030501)	134.04132	(05011018)
157.53614	(05010218)	160.15368	(05060206)			
3814745.5	493.42616	(05020823)	155.40589	(05063006)	232.88520	(05030501)
183.54710	(05122620)	174.77234	(05121724)			
3814670.5	513.19539	(05012221)	281.78674	(05031307)	374.28482	(05031307)
536.99715	(05030501)	405.41397	(05030501)			
3814595.5	209.02259	(05062806)	342.22611	(05062806)	756.29937	(05012221)
796.78438	(05062005)	720.66475	(05101923)			
3814520.5	325.97330	(05032507)	469.21099	(05050724)	763.56058	(05122303)
394.03328	(05031106)	884.99311	(05012221)			
3814445.5	648.41094	(05030804)	744.02599	(05030804)	783.56171	(05042924)
409.84683	(05032602)	454.43577	(05081902)			
3814370.5	311.71139	(05030701)	336.31693	(05030803)	376.08654	(05031001)
416.34691	(05062202)	471.76414	(05122721)			
3814295.5	312.12764	(05080803)	339.10167	(05080803)	372.12569	(05110622)
418.12140	(05032603)	465.77817	(05041701)			
3814220.5	313.40897	(05122121)	339.15557	(05051803)	370.45400	(05051803)
405.50173	(05051803)	443.79149	(05051803)			
3814145.5	313.30681	(05093001)	336.33212	(05093001)	364.30788	(05062401)
394.48345	(05062401)	431.36197	(05062401)			
3814070.5	312.78941	(05030702)	338.03308	(05030702)	360.47682	(05072202)
386.60777	(05072202)	412.54510	(05072202)			
3813995.5	312.28323	(05073102)	342.40559	(05073102)	352.05270	(05073102)
373.89866	(05122304)	404.54361	(05122304)			
3813920.5	304.39541	(05122304)	326.31266	(05020519)	350.45368	(05020519)
361.67450	(05020519)	401.39029	(05082604)			
3813845.5	290.40244	(05020519)	320.93497	(05082604)	357.72990	(05082604)
781.19183	(05030805)	402.76763	(05011702)			
3813770.5	360.92757	(05121703)	294.27041	(05121703)	468.01036	(05030805)
465.29638	(05062302)	413.28787	(05030624)			
3813695.5	249.15329	(05112218)	37.07332	(05032119)	83.58780	(05032119)
408.45049	(05041101)	387.87544	(05123022)			
3813620.5	199.10201	(05030624)	62.18468	(05032524)	71.99508	(05120310)
95.49871	(05032524)	227.65246	(05082603)			
3813545.5	477.79993	(05041101)	188.86431	(05123022)	95.50325	(05082724)
408.78477	(05012020)	686.36389	(05012020)			
3813470.5	181.88499	(05123022)	224.87394	(05082724)	107.48178	(05062804)
127.23768	(05010208)	534.25656	(05010208)			
3813395.5	75.66616	(05120310)	132.30243	(05062804)	105.00756	(05062804)
416.98175	(05010208)	312.03570	(05010208)			
3813320.5	64.13539	(05062804)	73.94606	(05062804)	156.35686	(05010208)
577.15545	(05010208)	466.42643	(05020504)			
3813245.5	117.83414	(05012020)	386.03104	(05010208)	391.35284	(05010208)
403.79127	(05010208)	421.34636	(05020504)			
3813170.5	220.65949	(05010208)	455.73071	(05010208)	440.51855	(05010208)
519.41963	(05020504)	176.25189	(05020504)			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 349295.28	349370.28	349445.28	349520.28	349595.28
3816095.5	28.55036 (05111710)	58.92951 (05111710)	60.45518 (05012211)	60.93672 (05011712)	60.74810 (05060707)
3816020.5	54.62949 (05111710)	61.77846 (05111710)	61.22990 (05122809)	62.62161 (05011712)	62.84484 (05060707)
3815945.5	51.25173 (05052008)	63.20326 (05111710)	63.18964 (05122809)	64.19001 (05020512)	64.54305 (05060707)
3815870.5	58.38226 (05052008)	62.83645 (05111710)	64.50863 (05122809)	65.53133 (05020512)	67.20779 (05061206)
3815795.5	63.91147 (05052008)	60.13085 (05111710)	65.84921 (05111710)	75.34834 (05060906)	71.35898 (05061206)
3815720.5	66.87204 (05052008)	57.11701 (05052008)	68.26074 (05111710)	72.53972 (05060906)	68.60056 (05011712)
3815645.5	68.10310 (05102108)	64.26384 (05052008)	68.10480 (05111710)	69.89114 (05122809)	69.80032 (05011712)
3815570.5	68.87211 (05011209)	68.54026 (05052008)	65.40307 (05111710)	70.11877 (05122809)	71.54477 (05020512)
3815495.5	69.45044 (05051409)	70.63662 (05052008)	35.02596 (05052008)	72.07388 (05111710)	72.43730 (05020512)
3815420.5	72.08479 (05051409)	72.61695 (05011209)	69.51201 (05052008)	72.65698 (05111710)	73.21408 (05012211)
3815345.5	73.44691 (05122210)	43.62561 (05011209)	45.64630 (05052008)	44.67440 (05122311)	47.47386 (05010410)
3815270.5	74.95846 (05061908)	47.12642 (05080607)	76.33542 (05102108)	44.29295 (05052008)	75.51002 (05111710)
3815195.5	77.10695 (05041708)	76.76901 (05122210)	79.59542 (05011209)	78.85266 (05052008)	79.37567 (05111710)
3815120.5	77.74644 (05062907)	81.00373 (05101210)	83.63431 (05051409)	84.30461 (05052008)	81.45700 (05111710)
3815045.5	82.79862 (05111210)	85.17378 (05081707)	99.73549 (05053106)	88.37910 (05011209)	80.69102 (05052008)

3814970.5	135.22265	(05022008)	113.74989	(05022008)	122.16422	(05053106)	89.44916	(05051409)	89.24172	(05052008)
3814895.5	165.41498	(05022008)	219.94662	(05022008)	97.96998	(05053106)	96.27789	(05122210)	98.62323	(05102108)
3814820.5	161.27161	(05060206)	271.41082	(05022008)	176.07480	(05022008)	101.07868	(05041708)	106.38176	(05051409)
3814745.5	280.44039	(05060206)	232.78221	(05060206)	118.00578	(05022008)	101.59395	(05062907)	111.41275	(05122210)
3814670.5	470.32398	(05052206)	266.66492	(05060206)	171.14794	(05022008)	211.49834	(05022008)	194.72241	(05053106)
3814595.5	805.77223	(05091424)	425.55452	(05060304)	254.51595	(05060206)	267.33835	(05022008)	457.65460	(05022008)
3814520.5	958.83337	(05040702)	881.68129	(05051301)	188.25537	(05011018)	177.97377	(05022008)	676.51351	(05060206)
3814445.5	999.96350	(05031702)	367.85569	(05062806)	241.51505	(05063006)	203.39463	(05063006)	1147.57215	(05052206)
3814370.5	543.36955	(05032507)	600.20820	(05032507)	525.18628	(05062806)	758.13000	(05031307)	953.70806	(05033003)
3814295.5	975.54477	(05051403)	1108.92009	(05062204)	728.23013	(05032507)	1392.82687	(05030804)	1031.04256	(05081902)
3814220.5	500.91656	(05051803)	617.89533	(05122421)	1250.54825	(05100303)	903.30135	(05032601)	1037.90025	(05032603)
3814145.5	471.83251	(05062401)	534.95261	(05041024)	660.00636	(05041024)	792.22221	(05030702)	977.69244	(05030702)
3814070.5	451.53143	(05073102)	507.09186	(05073102)	576.39632	(05122304)	689.23788	(05020519)	851.78108	(05082604)
3813995.5	442.24442	(05020519)	476.89024	(05082604)	545.41325	(05011702)	604.29267	(05011702)	728.41568	(05030624)
3813920.5	432.22580	(05011702)	436.25948	(05011702)	513.02466	(05030624)	574.88269	(05123022)	637.58328	(05082603)
3813845.5	427.20006	(05030624)	445.40117	(05030624)	479.35361	(05082724)	501.95345	(05082603)	437.02988	(05010208)
3813770.5	412.74545	(05123022)	441.80344	(05082724)	431.75403	(05082603)	353.09139	(05010208)	388.72664	(05020504)
3813695.5	421.46573	(05082603)	397.18547	(05082603)	314.47662	(05010208)	312.33174	(05020504)	408.30061	(05062805)
3813620.5	346.66887	(05082603)	304.43424	(05010208)	317.37353	(05010208)	339.53513	(05062805)	443.61368	(05062805)
3813545.5	690.74365	(05010208)	285.50740	(05010208)	665.58771	(05020504)	889.18477	(05062303)	424.35089	(05062805)
3813470.5	459.22153	(05010208)	75.45678	(05020118)	259.99947	(05062303)	397.51436	(05062805)	374.89451	(05062805)
3813395.5	619.42896	(05020504)	718.72543	(05020504)	174.43184	(05062303)	662.45148	(05020221)	310.04150	(05062805)
3813320.5	213.65709	(05020504)	250.74051	(05062805)	674.90585	(05020221)	315.26384	(05062805)	556.18282	(05031105)
3813245.5	526.92132	(05021005)	259.17417	(05062805)	297.63622	(05062805)	251.49271	(05062805)	269.45654	(05111802)
3813170.5	212.34002	(05062805)	259.70659	(05062805)	252.65763	(05062805)	200.15182	(05062805)	240.40140	(05111802)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 349670.28	349745.28	349820.28	349895.28	349970.28
3816095.5	61.30988 (05071508)	60.93195 (05012212)	60.11875 (05111811)	62.11844 (05051107)	61.74454 (05081908)
3816020.5	62.93797 (05062008)	62.99809 (05012212)	70.02197 (05061106)	69.66001 (05070306)	63.44354 (05013009)
3815945.5	64.95408 (05062008)	64.96616 (05012212)	82.00071 (05061106)	93.68049 (05070306)	85.67153 (05102305)
3815870.5	80.01564 (05011017)	79.36737 (05011020)	94.38873 (05061106)	117.04338 (05070306)	141.25912 (05102305)
3815795.5	84.05762 (05011017)	88.69645 (05011020)	111.64758 (05102519)	154.59459 (05012503)	205.92515 (05102305)
3815720.5	69.14865 (05042109)	92.88390 (05011017)	119.90467 (05102519)	185.25506 (05012503)	169.21982 (05102305)
3815645.5	75.93770 (05011017)	101.34319 (05011017)	103.93151 (05061106)	115.73145 (05070306)	173.63796 (05102305)
3815570.5	75.79958 (05061206)	78.54341 (05061506)	89.86580 (05061106)	111.27292 (05070306)	100.96931 (05060222)
3815495.5	73.71060 (05060707)	73.47234 (05071508)	80.10470 (05061106)	88.31607 (05061106)	74.59787 (05022510)
3815420.5	74.10642 (05041610)	75.65058 (05062008)	76.93002 (05061106)	76.45904 (05051107)	76.06130 (05022510)
3815345.5	54.02799 (05061206)	76.73225 (05062008)	73.11648 (05012212)	76.78703 (05051107)	76.06588 (05022510)
3815270.5	57.91582 (05061206)	63.93183 (05122512)	49.91316 (05012212)	51.76986 (05081008)	51.64754 (05022510)
3815195.5	79.68579 (05020512)	82.05251 (05042109)	78.62835 (05012212)	55.46269 (05051107)	81.56890 (05022510)
3815120.5	58.53628 (05012211)	86.01665 (05060707)	84.61045 (05012212)	82.61272 (05051107)	85.13403 (05022510)
3815045.5	87.20300 (05122809)	88.12550 (05060707)	91.76960 (05012212)	88.87949 (05051107)	90.07853 (05030710)

3814970.5	96.27734	(05060906)	92.61721	(05041610)	98.87093	(05061506)
97.33412	(05101708)	95.08869	(05120811)			
3814895.5	104.85269	(05060906)	99.18607	(05011712)	111.15299	(05061506)
117.74327	(05061106)	96.77548	(05120811)			
3814820.5	111.26243	(05060906)	126.52703	(05060906)	132.78065	(05061506)
120.60260	(05061106)	98.21765	(05120811)			
3814745.5	122.89615	(05052008)	151.35066	(05060906)	168.24052	(05061506)
136.98708	(05061106)	115.58743	(05120811)			
3814670.5	154.92741	(05053106)	193.69901	(05060906)	229.49907	(05011017)
183.40402	(05061106)	144.19760	(05012410)			
3814595.5	445.00708	(05062306)	275.21022	(05052306)	304.13416	(05011017)
217.67405	(05061106)	167.32176	(05012410)			
3814520.5	604.74744	(05050506)	720.94160	(05062306)	296.07702	(05060906)
175.27526	(05101708)	168.71259	(05021012)			
3814445.5	1550.11383	(05121422)	1092.70881	(05062306)	379.57773	(05060906)
266.34833	(05061106)	298.72230	(05110208)			
3814370.5	1722.35272	(05040303)	669.17818	(05022008)	272.29746	(05052008)
376.50628	(05110208)	695.17541	(05110208)			
3814295.5	1119.72575	(05031307)	379.16672	(05022008)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3814220.5	570.34476	(05032507)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3814145.5	1382.32472	(05072202)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3814070.5	1006.23268	(05011702)	1703.89605	(05123022)	0.00000	(00000000)
0.00000	(00000000)	0.00000	(00000000)			
3813995.5	861.22106	(05082603)	899.86260	(05062805)	1161.76372	(05062805)
1505.12895	(05112702)	1626.87947	(05061006)			
3813920.5	582.23452	(05082603)	823.25090	(05062805)	907.59111	(05111802)
875.81272	(05120408)	1049.86884	(05020102)			
3813845.5	557.98369	(05062805)	675.87196	(05062805)	726.73154	(05111802)
681.81156	(05120408)	723.99297	(05112702)			
3813770.5	539.23893	(05062805)	521.20025	(05111802)	584.62432	(05111802)
558.68875	(05120408)	596.77960	(05112702)			
3813695.5	471.78914	(05062805)	479.82793	(05111802)	471.44057	(05111802)
471.85650	(05120408)	491.18871	(05112702)			
3813620.5	381.94239	(05062805)	434.01599	(05111802)	381.03675	(05111802)
405.35181	(05120408)	404.08669	(05112702)			
3813545.5	325.27510	(05111802)	395.06476	(05111802)	339.79651	(05120408)
354.49373	(05120408)	339.42007	(05101701)			
3813470.5	340.31732	(05111802)	378.53544	(05111802)	317.53307	(05120408)
315.12609	(05120408)	288.48354	(05101701)			
3813395.5	379.51343	(05111802)	366.37075	(05111802)	302.76515	(05120408)
285.63197	(05120408)	247.94893	(05101701)			
3813320.5	478.50010	(05120403)	734.99376	(05011802)	318.24462	(05120408)
281.99068	(05120408)	227.34990	(05101701)			
3813245.5	323.04697	(05111802)	575.56733	(05011802)	558.61205	(05021608)
296.94242	(05120408)	207.82001	(05101701)			
3813170.5	270.84025	(05111802)	245.90080	(05111802)	468.35155	(05011804)
690.85496	(05011804)	209.29945	(05011923)			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350045.28	350120.28	350195.28	350270.28	350345.28
3816095.5	68.11417 (05060222)	62.43558 (05120811)	80.10027 (05032307)	58.40789 (05012410)	60.89513 (05021012)
3816020.5	64.75797 (05060222)	95.63536 (05032307)	117.91331 (05032307)	105.81406 (05111019)	92.56062 (05020721)
3815945.5	78.26880 (05060222)	145.57338 (05032307)	155.79001 (05032307)	171.50462 (05071206)	281.28570 (05122621)
3815870.5	143.35611 (05070206)	182.61184 (05032307)	223.12551 (05032307)	273.33437 (05071206)	416.31559 (05111718)
3815795.5	281.16365 (05070206)	315.01076 (05032307)	313.84559 (05022401)	374.72607 (05042201)	424.42664 (05102705)
3815720.5	216.69072 (05070206)	374.22530 (05032307)	441.95398 (05062801)	457.88697 (05111319)	450.09797 (05060902)
3815645.5	268.21730 (05070206)	374.60553 (05032307)	443.43477 (05090302)	470.90505 (05111718)	412.95427 (05060902)
3815570.5	208.76699 (05070206)	258.65209 (05032307)	195.86050 (05071206)	487.10013 (05111718)	490.94486 (05112321)
3815495.5	75.09233 (05120811)	137.47562 (05032307)	73.24419 (05021012)	196.06041 (05020708)	326.07800 (05060224)
3815420.5	76.65457 (05120811)	75.94857 (05012410)	75.48486 (05021012)	126.88850 (05020708)	171.25724 (05032807)
3815345.5	77.69721 (05030709)	74.96731 (05012410)	75.45010 (05021012)	74.97770 (05060807)	123.61358 (05032807)
3815270.5	54.90031 (05052911)	47.43667 (05050608)	79.30945 (05010609)	79.00565 (05121709)	95.97619 (05032807)
3815195.5	79.64726 (05030709)	53.19957 (05050608)	78.69667 (05060807)	80.13912 (05121709)	80.54395 (05120511)
3815120.5	83.14088 (05012410)	58.30629 (05050608)	80.93075 (05060807)	79.91247 (05072208)	109.02949 (05110208)
3815045.5	86.35083 (05012410)	82.94719 (05010609)	83.81104 (05121709)	86.86447 (05120511)	160.35612 (05110208)

3814970.5	90.25680	(05012410)	68.75321	(05010609)	86.95871	(05121709)	133.72302	(05110208)	213.95157	(05110208)
3814895.5	76.06424	(05021012)	74.99149	(05060807)	103.72340	(05110208)	194.55119	(05110208)	253.55074	(05110208)
3814820.5	96.17574	(05021012)	94.61426	(05121709)	166.04594	(05110208)	251.24177	(05110208)	260.83111	(05110208)
3814745.5	111.83011	(05010609)	131.11672	(05110208)	236.45131	(05110208)	280.50053	(05110208)	227.11196	(05110208)
3814670.5	135.53928	(05060807)	208.45900	(05110208)	290.36167	(05110208)	263.08328	(05110208)	163.04691	(05110208)
3814595.5	171.99937	(05110208)	287.06867	(05110208)	297.90055	(05110208)	201.16623	(05110208)	191.27114	(05120308)
3814520.5	279.64062	(05110208)	333.47731	(05110208)	248.04974	(05110208)	145.35107	(05120308)	222.22537	(05040407)
3814445.5	402.24964	(05110208)	322.63724	(05110208)	178.92511	(05111609)	236.65472	(05111609)	272.81078	(05111609)
3814370.5	481.90815	(05110208)	339.02797	(05120308)	328.89199	(05111609)	311.73280	(05111609)	601.55640	(05010409)
3814295.5	686.79342	(05111609)	468.80833	(05111609)	374.58963	(05111709)	636.14350	(05010409)	675.07618	(05060506)
3814220.5	848.31161	(05053006)	635.36659	(05111709)	327.22253	(05111709)	281.02265	(05053006)	667.82448	(05021408)
3814145.5	1432.84488	(05020808)	1219.64633	(05020808)	359.63931	(05040307)	458.07533	(05040307)	364.53995	(05040307)
3814070.5	770.29934	(05112208)	1230.83937	(05011404)	450.69047	(05112208)	336.33754	(05093007)	356.38340	(05112308)
3813995.5	1160.51879	(05120624)	1352.70334	(05032224)	925.29021	(05111904)	1062.53068	(05022803)	393.60564	(05112208)
3813920.5	848.57343	(05020404)	892.22669	(05120601)	1402.21475	(05120701)	376.55535	(05112108)	372.57977	(05112208)
3813845.5	726.47618	(05013106)	718.51958	(05011503)	1239.69307	(05120607)	999.34823	(05111622)	569.36019	(05011505)
3813770.5	586.28429	(05013105)	670.47079	(05121906)	633.47894	(05112205)	555.46816	(05011507)	533.91252	(05120603)
3813695.5	643.13385	(05020102)	552.97772	(05031504)	452.83051	(05011607)	442.48789	(05012004)	430.36393	(05011507)
3813620.5	416.30353	(05112702)	416.00580	(05120406)	395.55429	(05122003)	378.71387	(05011503)	378.10440	(05120402)
3813545.5	375.04201	(05112702)	367.85440	(05122205)	349.11088	(05031504)	334.85624	(05020404)	315.09167	(05012002)
3813470.5	334.79348	(05112702)	328.78492	(05020102)	317.37654	(05120406)	303.09748	(05011605)	287.84304	(05120605)
3813395.5	297.26329	(05112702)	286.21479	(05020102)	288.29536	(05013105)	274.38427	(05031504)	264.20162	(05121906)
3813320.5	263.56740	(05112702)	257.97209	(05112702)	262.62676	(05122205)	253.71382	(05013106)	243.51436	(05011605)
3813245.5	245.99095	(05101701)	249.86655	(05112702)	240.52174	(05020102)	232.65826	(05120406)	223.29793	(05031504)
3813170.5	243.12457	(05101701)	238.04889	(05112702)	217.34286	(05020102)	217.06552	(05013105)	209.14725	(05013106)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350420.28	350495.28	350570.28	350645.28	350720.28
3816095.5	109.56527 (05020708)	60.59549 (05060807)	81.92837 (05032807)	55.70103 (05072208)	59.60687 (05120511)
3816020.5	117.46968 (05020708)	147.13418 (05060224)	137.98457 (05032807)	85.70547 (05012619)	133.31225 (05050523)
3815945.5	360.39941 (05053104)	275.73021 (05060224)	338.12404 (05082003)	276.33696 (05111001)	375.14939 (05042705)
3815870.5	392.69753 (05060902)	405.13084 (05022621)	392.96801 (05082003)	361.17201 (05082304)	139.39354 (05080202)
3815795.5	381.83963 (05112321)	155.09162 (05081305)	308.32165 (05072203)	150.93155 (05083106)	147.24899 (05080202)
3815720.5	165.93200 (05081305)	161.37633 (05111217)	162.32177 (05081521)	157.10591 (05080202)	153.01146 (05081523)
3815645.5	177.91015 (05081305)	170.23654 (05081521)	169.09403 (05083106)	163.40816 (05080202)	155.20167 (05092804)
3815570.5	482.93451 (05052123)	185.37707 (05081521)	176.62078 (05080202)	173.77258 (05081523)	179.01384 (05110208)
3815495.5	132.60557 (05012619)	438.71285 (05042705)	393.55539 (05092124)	202.33541 (05110208)	207.92980 (05110208)
3815420.5	341.72877 (05111001)	507.56822 (05081905)	483.88496 (05030905)	234.27042 (05110208)	229.39711 (05110208)
3815345.5	209.06129 (05050523)	250.83067 (05110806)	338.59442 (05123107)	460.17952 (05100105)	323.42507 (05110208)
3815270.5	104.92974 (05061406)	153.21341 (05110208)	201.47672 (05110208)	408.71762 (05110208)	172.02801 (05110208)
3815195.5	132.92696 (05110208)	194.80522 (05110208)	218.88891 (05110208)	192.66583 (05110208)	135.99704 (05110208)
3815120.5	181.10113 (05110208)	224.77038 (05110208)	213.02726 (05110208)	158.16454 (05110208)	94.60658 (05110208)
3815045.5	223.70412 (05110208)	231.52981 (05110208)	182.74841 (05110208)	113.39353 (05110208)	119.22584 (05120308)

3814970.5	245.96530 (05110208)	209.09684 (05110208)	135.85830 (05110208)	123.78982 (05120308)	123.33360 (05120308)
3814895.5	235.88229 (05110208)	162.36390 (05110208)	150.45490 (05120308)	187.31973 (05120308)	163.04698 (05040407)
3814820.5	192.97056 (05110208)	187.26052 (05120308)	236.44392 (05120308)	286.49305 (05040407)	500.24074 (05062606)
3814745.5	131.68664 (05110208)	146.55399 (05120308)	135.72491 (05040407)	169.16431 (05040407)	125.35208 (05111609)
3814670.5	172.78615 (05120308)	136.34650 (05040407)	122.36318 (05111609)	166.29746 (05111609)	399.76164 (05111609)
3814595.5	227.44722 (05040407)	337.86326 (05111609)	211.00330 (05111609)	465.58611 (05111609)	743.19117 (05092105)
3814520.5	444.63462 (05111609)	503.85698 (05021308)	587.50905 (05021308)	482.43540 (05111409)	352.09784 (05011124)
3814445.5	274.83095 (05111609)	529.13248 (05111409)	864.89450 (05013123)	429.70573 (05010409)	351.99506 (05091923)
3814370.5	595.07088 (05010409)	275.48061 (05010409)	496.41250 (05111709)	720.15516 (05122907)	532.59102 (05060806)
3814295.5	1138.98692 (05040502)	865.25072 (05101507)	589.80753 (05092707)	655.85095 (05092707)	603.19819 (05121707)
3814220.5	623.80403 (05101620)	533.89443 (05101620)	471.91772 (05101620)	425.76316 (05031524)	267.23493 (05033107)
3814145.5	1145.13383 (05112907)	489.40555 (05092004)	394.48399 (05092004)	422.05015 (05121104)	366.19027 (05121104)
3814070.5	586.11147 (05031423)	467.41505 (05040205)	376.16995 (05111720)	351.57725 (05111720)	326.97323 (05111720)
3813995.5	564.84123 (05112120)	431.71758 (05092606)	390.68053 (05122407)	327.73356 (05040103)	287.49918 (05021702)
3813920.5	559.32378 (05011404)	497.83022 (05030124)	357.92823 (05101304)	322.01511 (05112120)	275.97032 (05100522)
3813845.5	702.16137 (05120108)	893.68471 (05121404)	424.99311 (05020223)	386.40028 (05090404)	299.62885 (05101304)
3813770.5	454.11284 (05031506)	431.73881 (05122002)	396.62341 (05111904)	799.25325 (05010507)	699.59172 (05013007)
3813695.5	366.75645 (05120603)	356.93476 (05032805)	383.98228 (05120524)	349.49219 (05032022)	298.80873 (05111906)
3813620.5	330.71896 (05011507)	319.75267 (05011824)	314.82802 (05022507)	317.45491 (05011505)	261.54390 (05122002)
3813545.5	299.39358 (05111722)	306.97521 (05011524)	272.34458 (05011824)	315.10348 (05022507)	243.44353 (05031506)
3813470.5	273.38315 (05112205)	258.47930 (05120624)	277.55371 (05011524)	265.15294 (05011824)	234.39990 (05022507)
3813395.5	251.19020 (05112002)	238.41337 (05012004)	232.49764 (05120624)	256.38557 (05011524)	261.34747 (05011824)
3813320.5	233.08668 (05011607)	222.76078 (05011503)	212.72890 (05120402)	225.51931 (05120624)	203.06585 (05011524)
3813245.5	216.60713 (05121906)	208.00192 (05120605)	198.35122 (05012002)	190.30135 (05120402)	208.75026 (05120601)
3813170.5	201.89964 (05011605)	194.64257 (05020404)	186.38364 (05112002)	178.37075 (05112205)	177.43617 (05120402)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350795.28	350870.28	350945.28	351020.28	351095.28
3816095.5	337.55835 (05042705)	152.77485 (05121706)	97.86534 (05052506)	116.23569 (05110208)	280.23345 (05012522)
3816020.5	216.10302 (05102206)	346.31727 (05030905)	212.67451 (05110208)	342.50182 (05032024)	269.63131 (05110208)
3815945.5	341.98888 (05091501)	180.28983 (05110208)	352.26362 (05112922)	277.86926 (05100105)	170.76183 (05110208)
3815870.5	368.67282 (05030905)	204.80655 (05110208)	328.20843 (05061905)	174.21147 (05110208)	162.61152 (05110208)
3815795.5	152.59523 (05110208)	187.73720 (05110208)	182.46253 (05110208)	200.20128 (05110208)	147.94061 (05110208)
3815720.5	169.43121 (05110208)	187.43760 (05110208)	187.84574 (05110208)	159.27220 (05110208)	133.39675 (05110208)
3815645.5	176.10548 (05110208)	184.57557 (05110208)	174.62707 (05110208)	143.82688 (05110208)	122.75548 (05021101)
3815570.5	186.09163 (05110208)	177.75579 (05110208)	157.68079 (05110208)	137.63423 (05021101)	127.03061 (05021101)
3815495.5	197.92195 (05110208)	170.62870 (05110208)	143.23212 (05021101)	131.12780 (05021101)	122.01495 (05100519)
3815420.5	199.89924 (05110208)	162.56154 (05102703)	144.62803 (05021101)	129.39981 (05100519)	125.40721 (05021519)
3815345.5	189.99073 (05110208)	169.89423 (05021101)	149.82797 (05100519)	143.24694 (05021519)	136.70449 (05021519)
3815270.5	475.95579 (05020120)	175.63154 (05100519)	177.19692 (05021519)	164.32044 (05021519)	146.07761 (05102324)
3815195.5	361.98061 (05032323)	476.26396 (05092503)	401.13439 (05122503)	185.44546 (05102324)	171.22438 (05112119)
3815120.5	164.45266 (05120308)	190.31435 (05120308)	158.42494 (05120308)	213.21565 (05040407)	377.79937 (05032202)
3815045.5	140.69996 (05120308)	145.56375 (05120308)	223.20390 (05040407)	508.11637 (05121521)	486.47667 (05041303)

3814970.5	159.47062 (05040407)	196.37849 (05040407)	172.05822 (05040407)	171.65891 (05062006)	407.28049 (05032422)
3814895.5	269.45954 (05040407)	428.37774 (05062006)	192.24359 (05111609)	292.70026 (05021206)	432.54055 (05110807)
3814820.5	604.11047 (05091405)	612.35163 (05102002)	423.68555 (05110807)	356.87930 (05111609)	521.76717 (05051103)
3814745.5	424.18193 (05021206)	595.51605 (05043002)	274.08690 (05111609)	570.47236 (05040501)	419.34849 (05121708)
3814670.5	433.72608 (05111609)	640.95911 (05040501)	612.20103 (05042302)	272.36389 (05111409)	227.18007 (05010409)
3814595.5	666.35258 (05042302)	296.41334 (05111409)	525.60206 (05030904)	563.42553 (05051905)	247.91218 (05010409)
3814520.5	303.58664 (05120323)	261.48504 (05091923)	239.01217 (05111709)	246.53781 (05111709)	292.38668 (05111709)
3814445.5	734.66655 (05101423)	356.06212 (05111709)	261.26177 (05011707)	211.61810 (05011707)	227.28044 (05011707)
3814370.5	325.96146 (05031523)	285.07172 (05031523)	266.41080 (05031523)	207.82289 (05031523)	209.67267 (05112603)
3814295.5	340.02127 (05080804)	281.99252 (05080804)	225.08915 (05080804)	205.14399 (05011703)	202.78403 (05011703)
3814220.5	431.98043 (05033107)	289.33594 (05031524)	259.06141 (05031524)	207.59527 (05031524)	189.16884 (05031524)
3814145.5	710.11613 (05040504)	600.46403 (05032623)	249.84743 (05121104)	249.77197 (05121104)	192.74029 (05121104)
3814070.5	298.27706 (05111404)	306.11876 (05111404)	287.56666 (05111404)	255.41604 (05111404)	195.14497 (05111404)
3813995.5	278.35134 (05031423)	240.69198 (05031423)	222.68398 (05040205)	224.44033 (05111720)	201.92986 (05111720)
3813920.5	251.09404 (05092606)	230.99340 (05122407)	212.52928 (05040103)	197.06805 (05021702)	182.19487 (05021702)
3813845.5	257.72677 (05112120)	224.85006 (05112120)	206.83724 (05100522)	191.14455 (05092606)	178.18243 (05122407)
3813770.5	269.29530 (05090404)	251.15465 (05030124)	223.50692 (05101304)	186.75740 (05112120)	173.71720 (05112120)
3813695.5	234.31876 (05120401)	213.11592 (05020223)	197.64215 (05011404)	181.96061 (05030124)	170.03887 (05101304)
3813620.5	218.01383 (05111904)	201.82310 (05111906)	188.83136 (05120401)	175.80551 (05020223)	165.61129 (05011404)
3813545.5	208.31557 (05120524)	193.94605 (05032022)	179.55127 (05111904)	170.70006 (05111906)	160.51956 (05120401)
3813470.5	203.43649 (05032805)	185.86854 (05011505)	174.47056 (05122002)	164.41613 (05111904)	151.84232 (05111906)
3813395.5	193.71353 (05040203)	176.71496 (05032805)	167.47821 (05031506)	158.50117 (05120524)	149.86680 (05032022)
3813320.5	185.37319 (05013002)	169.32394 (05040203)	160.21148 (05031104)	152.51514 (05031506)	144.47148 (05120524)
3813245.5	172.78336 (05011524)	161.59533 (05013002)	153.42620 (05120603)	146.10796 (05022507)	139.10198 (05032805)
3813170.5	166.69361 (05120601)	154.10663 (05011524)	147.10390 (05013002)	140.48532 (05120603)	134.27239 (05022507)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** 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)
350508.88	3814829.88	197.75947	(05120308)	350283.70	3815266.49	84.16067	(05032807)
350539.82	3814604.70	184.57768	(05111609)	350467.63	3814245.45	567.65586	(05080804)
350008.68	3813941.20	978.71724	(05011605)	350147.91	3813936.04	852.25093	(05013002)
350557.01	3814453.44	854.64933	(05042604)	349200.78	3815251.02	75.00631	(05062907)
349173.28	3815257.89	74.24065	(05111210)	348862.58	3814174.11	295.94097	(05092224)
348862.58	3815183.55	68.93316	(05052207)	350494.71	3815179.68	202.16335	(05110208)
350486.97	3814363.62	273.70987	(05010409)	350216.24	3814363.62	333.54771	(05111609)
350216.24	3814193.45	307.55730	(05053006)	349991.92	3813969.12	1246.86925	(05031504)
349794.67	3813961.39	1003.32994	(05062805)	349597.42	3814065.81	844.84826	(05082604)
349121.71	3814085.15	378.92153	(05030702)				

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28
3816095.5	23.35609 (05051622)	32.46318 (05100408)	28.17480 (05022206)	28.22770 (05111210)	32.29281 (05031509)
3816020.5	29.48483 (05072023)	29.24805 (05030519)	32.07976 (05100408)	24.97318 (05022206)	31.71719 (05030513)
3815945.5	31.82912 (05101601)	33.16588 (05072023)	29.15010 (05051622)	30.86494 (05100408)	27.57940 (05070207)
3815870.5	36.18836 (05021223)	34.80203 (05031305)	34.61440 (05072023)	31.18520 (05022008)	30.91665 (05100408)
3815795.5	36.82165 (05092021)	38.73985 (05101601)	38.18429 (05050802)	37.62541 (05072023)	36.21527 (05022008)
3815720.5	36.29904 (05052206)	39.71645 (05092021)	39.29923 (05101601)	32.73287 (05101601)	33.53715 (05030519)
3815645.5	41.63465 (05030424)	40.38415 (05121724)	40.52227 (05092021)	35.33706 (05101601)	35.27255 (05101601)
3815570.5	39.27742 (05102521)	45.24378 (05052207)	42.53957 (05121724)	34.05980 (05070207)	38.93056 (05101601)
3815495.5	37.11894 (05022001)	54.20091 (05110709)	44.67958 (05052207)	31.12001 (05031311)	46.96645 (05092021)
3815420.5	51.20667 (05123119)	55.81431 (05060304)	45.21649 (05021920)	33.86770 (05010219)	57.70595 (05052207)
3815345.5	60.94685 (05030501)	63.95632 (05030521)	44.19679 (05102521)	33.92880 (05022001)	75.43336 (05073106)
3815270.5	78.22356 (05032421)	79.03197 (05022004)	49.03311 (05050101)	47.41604 (05050101)	90.07483 (05042403)
3815195.5	87.94702 (05050723)	81.61524 (05052121)	59.55408 (05050723)	51.42304 (05031311)	115.27121 (05123119)
3815120.5	109.65694 (05081006)	99.55694 (05060522)	68.93987 (05031307)	49.15074 (05060302)	81.65247 (05030521)
3815045.5	131.87598 (05010424)	119.21012 (05091224)	105.42976 (05063006)	69.34835 (05060522)	70.58026 (05022003)

3814970.5	142.24319	(05122722)	104.44806	(05062124)	70.01744	(05062806)
61.72220	(05021321)	65.81430	(05060522)			
3814895.5	60.55307	(05102207)	51.30825	(05071806)	44.74245	(05102502)
49.67358	(05102502)	60.09351	(05010424)			
3814820.5	65.41340	(05050724)	77.22619	(05102523)	53.60506	(05060602)
71.46042	(05041923)	85.54664	(05123120)			
3814745.5	145.05289	(05102207)	203.41477	(05040302)	110.10448	(05050119)
160.50444	(05062704)	169.57226	(05102207)			
3814670.5	287.10402	(05090102)	329.85332	(05110118)	278.54948	(05042924)
220.75491	(05102523)	322.94534	(05010206)			
3814595.5	297.25894	(05090401)	304.50308	(05062202)	302.46413	(05101222)
351.93768	(05082702)	400.93407	(05110118)			
3814520.5	300.53429	(05030701)	301.23724	(05062201)	281.67971	(05062201)
280.68718	(05040221)	194.76522	(05101201)			
3814445.5	298.60006	(05032603)	297.63888	(05032603)	283.32760	(05041701)
281.27780	(05072602)	197.01211	(05052001)			
3814370.5	280.58185	(05032601)	327.10106	(05051403)	354.90079	(05051403)
328.92440	(05041424)	199.44969	(05112522)			
3814295.5	84.97477	(05051803)	195.62934	(05091920)	313.49301	(05101123)
357.51631	(05110423)	386.22075	(05110423)			
3814220.5	52.63209	(05122418)	167.07652	(05122121)	296.26900	(05110123)
268.31471	(05012320)	328.13028	(05012320)			
3814145.5	88.78804	(05012320)	136.50521	(05090724)	85.89874	(05122305)
54.94827	(05122310)	76.90291	(05122305)			
3814070.5	101.51191	(05012119)	37.75402	(05102423)	24.11969	(05021513)
24.84148	(05120410)	69.71483	(05062401)			
3813995.5	26.20760	(05082602)	18.61339	(05123013)	18.09805	(05020203)
22.73828	(05123013)	39.61072	(05030702)			
3813920.5	63.52138	(05021011)	35.42287	(05051802)	21.92806	(05120409)
16.53784	(05112708)	21.88766	(05060407)			
3813845.5	169.23497	(05072202)	103.15937	(05073005)	27.26645	(05122304)
14.80072	(05120417)	18.04580	(05112708)			
3813770.5	259.20886	(05122120)	238.36996	(05073102)	122.80826	(05073102)
30.67592	(05020519)	39.32755	(05010622)			
3813695.5	216.11836	(05061924)	152.35975	(05061924)	58.31314	(05120417)
52.68619	(05122304)	66.07058	(05122304)			
3813620.5	150.25730	(05011219)	172.82887	(05011702)	92.61615	(05122304)
31.54180	(05020218)	54.33548	(05010622)			
3813545.5	118.11074	(05122304)	52.75385	(05121005)	28.15278	(05030805)
30.08519	(05121005)	70.36837	(05032119)			
3813470.5	68.38273	(05062302)	25.97448	(05121005)	56.82754	(05032119)
83.87243	(05032119)	65.62167	(05030624)			
3813395.5	92.01605	(05032119)	113.27636	(05032119)	159.93589	(05032119)
190.24572	(05032119)	171.71461	(05041101)			
3813320.5	87.98985	(05032119)	90.00735	(05082604)	160.36012	(05031420)
150.86393	(05031420)	155.26257	(05030805)			
3813245.5	136.73023	(05031420)	135.12594	(05031420)	151.22343	(05123022)
79.93009	(05112218)	28.27235	(05082724)			
3813170.5	110.23595	(05123022)	96.22916	(05112218)	36.19486	(05082724)
22.01263	(05123012)	20.44364	(05020123)			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348545.28	348620.28	348695.28	348770.28	348845.28
3816095.5	23.90875 (05020619)	24.74277 (05120218)	23.50479 (05022410)	42.02282 (05062907)	45.31870 (05081707)
3816020.5	30.19947 (05031509)	26.25300 (05022008)	24.72078 (05102503)	38.64154 (05061908)	45.78286 (05122210)
3815945.5	30.18430 (05030513)	30.56218 (05041823)	25.68206 (05102503)	29.71342 (05080907)	42.99297 (05122615)
3815870.5	29.37072 (05022206)	35.50421 (05091102)	31.52970 (05081707)	31.69598 (05102503)	38.22009 (05061908)
3815795.5	35.68032 (05022206)	37.25770 (05101524)	39.05060 (05031509)	34.59635 (05020619)	34.79062 (05030402)
3815720.5	46.80593 (05022121)	39.03115 (05022206)	39.90187 (05101524)	39.15042 (05091102)	34.75736 (05020619)
3815645.5	50.22082 (05031509)	46.22830 (05022121)	42.79919 (05022206)	42.20391 (05091102)	36.86993 (05041823)
3815570.5	63.24171 (05101807)	52.89931 (05030306)	44.39123 (05100408)	34.31562 (05022206)	41.39866 (05062907)
3815495.5	59.15123 (05050802)	43.92398 (05030519)	35.00342 (05072023)	40.00481 (05022008)	37.03938 (05022410)
3815420.5	55.76909 (05060206)	42.15883 (05092021)	35.00582 (05022821)	41.08086 (05022008)	42.70806 (05100408)
3815345.5	56.90101 (05052206)	44.89748 (05060205)	51.74480 (05022523)	44.27218 (05030519)	36.26630 (05051622)
3815270.5	66.14190 (05073106)	48.28053 (05121724)	37.95743 (05022205)	33.10911 (05051623)	42.45698 (05072023)
3815195.5	101.57879 (05102501)	66.60678 (05021920)	43.83246 (05010219)	36.53796 (05123123)	52.01673 (05092021)
3815120.5	164.70583 (05030521)	92.54478 (05010703)	67.12352 (05122620)	46.05970 (05051706)	58.19920 (05022523)
3815045.5	215.52936 (05022004)	165.41249 (05072106)	113.27006 (05102521)	60.22256 (05021920)	71.16102 (05031107)

3814970.5	182.88475	(05060524)	250.71255	(05040702)	132.83445	(05022004)
70.60314	(05091101)	67.83978	(05022001)			
3814895.5	124.50645	(05021321)	418.21829	(05060524)	340.86148	(05031307)
161.58558	(05050723)	106.71242	(05072106)			
3814820.5	98.74641	(05022321)	418.25388	(05012018)	442.01714	(05012221)
170.36166	(05060522)	276.84928	(05051301)			
3814745.5	136.96504	(05010206)	430.85187	(05122722)	481.20620	(05012221)
450.75015	(05012018)	496.03236	(05012221)			
3814670.5	403.54539	(05050724)	486.36228	(05042924)	504.88554	(05050724)
567.14702	(05010619)	584.48903	(05012221)			
3814595.5	397.97747	(05031006)	434.76733	(05111321)	435.29299	(05111321)
530.30353	(05050724)	564.55289	(05111002)			
3814520.5	207.43944	(05110422)	221.11749	(05092523)	237.32136	(05110422)
426.99637	(05110118)	197.22159	(05010217)			
3814445.5	210.09828	(05062201)	225.52548	(05110624)	242.87863	(05062201)
411.70636	(05102107)	497.92870	(05051403)			
3814370.5	211.64878	(05051123)	224.88298	(05123108)	244.11852	(05123019)
261.95340	(05091902)	288.01847	(05110624)			
3814295.5	372.76640	(05010205)	224.45687	(05051123)	244.44193	(05051123)
265.98290	(05051123)	288.27373	(05072103)			
3814220.5	371.10896	(05122305)	220.46431	(05122301)	239.30021	(05122301)
258.17530	(05122301)	278.23687	(05092224)			
3814145.5	322.97126	(05060724)	377.83365	(05062401)	234.53039	(05122305)
252.86531	(05122305)	271.54503	(05122305)			
3814070.5	337.28548	(05041024)	396.27534	(05041301)	426.12234	(05051802)
254.29537	(05062401)	272.08140	(05021923)			
3813995.5	178.58213	(05030702)	212.80295	(05051802)	309.61318	(05021923)
387.75921	(05061821)	233.89133	(05122304)			
3813920.5	72.18511	(05021923)	51.79135	(05072202)	115.79907	(05061924)
361.42644	(05122120)	200.95084	(05010622)			
3813845.5	18.34397	(05112708)	22.62559	(05091608)	42.18530	(05010622)
90.97954	(05121005)	187.44345	(05010622)			
3813770.5	26.73334	(05091608)	31.49431	(05020218)	41.36029	(05122120)
113.47247	(05122304)	169.23940	(05030805)			
3813695.5	60.38840	(05073005)	78.86504	(05073005)	105.20637	(05062302)
195.77079	(05020519)	250.95227	(05112219)			
3813620.5	119.23106	(05020519)	127.65048	(05032119)	225.39118	(05112219)
271.08995	(05031420)	279.77085	(05031420)			
3813545.5	141.32732	(05032119)	143.54462	(05030624)	248.26806	(05041101)
215.29399	(05031420)	193.06729	(05030805)			
3813470.5	39.37309	(05112219)	34.90145	(05041101)	192.90288	(05123022)
99.55382	(05082724)	58.48032	(05082603)			
3813395.5	44.11321	(05030805)	34.68711	(05031420)	83.97430	(05032119)
51.01218	(05112219)	30.81416	(05022224)			
3813320.5	81.99085	(05082724)	26.84339	(05082603)	24.46531	(05020123)
30.39148	(05022224)	18.27959	(05022302)			
3813245.5	26.22619	(05082603)	21.56724	(05020123)	14.15716	(05062804)
16.07555	(05020123)	19.19426	(05022302)			
3813170.5	36.57875	(05062804)	16.82129	(05020108)	14.27450	(05092822)
17.64250	(05022302)	25.50931	(05082724)			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348920.28	348995.28	349070.28	349145.28	349220.28
3816095.5	23.89044 (05101210)	41.18278 (05122412)	22.88370 (05052906)	23.72819 (05122603)	21.46708 (05080708)
3816020.5	23.63225 (05050701)	44.13520 (05011209)	24.57056 (05011022)	28.00424 (05121803)	22.13143 (05090510)
3815945.5	49.76513 (05081707)	51.34322 (05101210)	42.77249 (05122412)	30.76293 (05041824)	25.47477 (05042419)
3815870.5	47.15518 (05122210)	47.34494 (05051409)	48.21380 (05011209)	34.80739 (05061908)	32.34672 (05121803)
3815795.5	45.65836 (05111210)	55.44669 (05053106)	55.11495 (05101210)	45.94524 (05122412)	35.85853 (05032419)
3815720.5	37.39157 (05061908)	51.82649 (05122615)	57.63783 (05041708)	52.88328 (05090409)	41.60617 (05041824)
3815645.5	35.76108 (05102503)	50.80562 (05053106)	58.61034 (05122210)	59.05615 (05122615)	48.34028 (05061908)
3815570.5	39.33567 (05050807)	41.64310 (05030402)	57.08792 (05062907)	62.43412 (05041708)	57.30954 (05090409)
3815495.5	45.56586 (05031509)	40.88574 (05030402)	56.47925 (05101210)	60.49810 (05122615)	61.92853 (05122615)
3815420.5	44.53574 (05022410)	46.87377 (05091102)	62.09661 (05081707)	58.68800 (05080907)	65.61485 (05122615)
3815345.5	42.86162 (05100408)	53.62332 (05111210)	60.28950 (05030402)	45.53646 (05061908)	60.75171 (05122210)
3815270.5	58.61462 (05022008)	54.82383 (05102706)	73.10568 (05121805)	49.52734 (05030402)	58.37448 (05061908)
3815195.5	55.66453 (05110710)	92.66498 (05040803)	62.07211 (05042404)	58.41980 (05091102)	48.71136 (05102503)
3815120.5	76.02233 (05021223)	109.82833 (05022007)	71.57430 (05030306)	59.75115 (05101524)	55.48411 (05081707)
3815045.5	112.01604 (05021302)	108.39124 (05051624)	60.11545 (05030519)	65.31189 (05100408)	62.64624 (05030513)

3814970.5	193.94758	(05010218)	161.27319	(05060301)	117.71325
(05051624)	70.73476	(05030513)	65.87934	(05100408)	
3814895.5	231.13006	(05102501)	137.41428	(05060304)	76.19740
(05051706)	68.28899	(05092021)	68.88666	(05050807)	
3814820.5	443.43509	(05101923)	214.29254	(05032421)	107.01482
(05102501)	143.37167	(05060205)	107.03174	(05010218)	
3814745.5	476.07592	(05100304)	128.02485	(05021321)	200.20706
(05030521)	160.74753	(05030501)	161.01359	(05102521)	
3814670.5	479.02781	(05010619)	234.11978	(05063006)	324.27335
(05101923)	503.46028	(05012321)	339.17321	(05102501)	
3814595.5	158.83468	(05102207)	253.12949	(05010424)	720.68451
(05062005)	779.40173	(05042206)	691.98489	(05060524)	
3814520.5	254.02975	(05102520)	414.14730	(05102819)	719.86450
(05122722)	392.38893	(05062124)	853.59677	(05010621)	
3814445.5	546.11076	(05102819)	677.40568	(05102107)	754.21570
(05040302)	407.97836	(05053022)	453.35101	(05101102)	
3814370.5	308.69189	(05062201)	333.44881	(05062624)	373.42888
(05090401)	415.50311	(05012019)	468.46563	(05110422)	
3814295.5	310.52151	(05041523)	338.52955	(05110623)	369.35019
(05100923)	413.26814	(05052001)	462.48786	(05091902)	
3814220.5	299.56004	(05092224)	325.55611	(05122421)	359.24441
(05110521)	396.50899	(05091920)	438.28571	(05091920)	
3814145.5	291.59012	(05012320)	312.55640	(05012320)	337.99380
(05012320)	369.83937	(05030702)	411.47122	(05030702)	
3814070.5	296.60138	(05021923)	318.09945	(05041301)	331.55540
(05041024)	358.08303	(05073102)	377.80840	(05082602)	
3813995.5	263.26062	(05030702)	277.27126	(05021923)	270.87751
(05021923)	269.44237	(05010622)	298.21871	(05072202)	
3813920.5	207.79561	(05011219)	230.27900	(05011702)	242.78561
(05010622)	250.62597	(05121703)	266.84632	(05030805)	
3813845.5	192.73199	(05121703)	199.78579	(05030805)	243.59979
(05030805)	373.67371	(05030624)	298.00505	(05121703)	
3813770.5	130.57943	(05020519)	136.03674	(05032119)	284.75428
(05030624)	290.73135	(05032119)	278.61826	(05032119)	
3813695.5	155.20824	(05030624)	21.46168	(05020218)	39.10849
(05020124)	209.40419	(05032119)	252.93067	(05012020)	
3813620.5	136.95797	(05030805)	35.27232	(05020124)	31.33092
(05123022)	50.85210	(05022224)	116.92781	(05100518)	
3813545.5	177.45819	(05082603)	90.26130	(05012020)	48.16278
(05022224)	152.50225	(05032524)	165.14613	(05112219)	
3813470.5	89.93678	(05030624)	107.29359	(05012622)	46.92984
(05032524)	53.76633	(05120310)	78.83176	(05021005)	
3813395.5	25.76821	(05020202)	49.32097	(05123022)	46.55632
(05120310)	63.47359	(05020118)	42.49442	(05062303)	
3813320.5	21.01283	(05020108)	31.46948	(05082724)	28.54279
(05012622)	76.56739	(05020118)	107.14109	(05122319)	
3813245.5	41.59339	(05022224)	47.31440	(05100518)	29.03418
(05022224)	20.64335	(05022224)	44.76791	(05062805)	
3813170.5	33.28029	(05022224)	30.63767	(05062303)	77.97314
(05100624)	50.53144	(05010106)	95.29458	(05082504)	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 349295.28	349370.28	349445.28	349520.28	349595.28
3816095.5	21.73968 (05121811)	33.36810 (05011712)	43.99421 (05122311)	43.11670 (05010410)	47.54659 (05102411)
3816020.5	28.36500 (05091105)	32.17402 (05050820)	42.67788 (05060906)	46.93768 (05061206)	47.19622 (05020512)
3815945.5	31.62361 (05122809)	34.83769 (05020512)	45.84925 (05060906)	50.79073 (05060707)	52.93896 (05020512)
3815870.5	32.89307 (05102318)	36.84196 (05041902)	44.08388 (05050820)	49.25944 (05061206)	52.94115 (05062008)
3815795.5	34.21517 (05091105)	34.65449 (05091105)	45.31699 (05050820)	54.35099 (05061206)	59.41292 (05110923)
3815720.5	37.66829 (05121803)	38.90641 (05090409)	45.18463 (05041902)	57.47106 (05122311)	55.02383 (05060906)
3815645.5	39.75076 (05032419)	38.57640 (05102318)	40.24636 (05041902)	55.08997 (05011712)	57.36762 (05060906)
3815570.5	36.36165 (05080907)	40.03444 (05080607)	37.38270 (05012117)	50.29291 (05011712)	58.68446 (05060707)
3815495.5	49.60004 (05061908)	38.58683 (05121803)	30.44301 (05102108)	44.36317 (05011712)	55.38667 (05111710)
3815420.5	62.39375 (05090409)	41.44756 (05032419)	37.84900 (05051409)	38.04765 (05041902)	58.39343 (05041610)
3815345.5	65.40498 (05122615)	35.48194 (05052906)	31.63319 (05042419)	30.83268 (05102108)	37.34060 (05092018)
3815270.5	66.22640 (05081707)	41.11161 (05061908)	43.29009 (05032419)	34.65144 (05122603)	48.48215 (05041610)
3815195.5	64.28746 (05122615)	69.10096 (05122615)	56.29110 (05061908)	51.48992 (05080607)	51.69928 (05011712)
3815120.5	57.63994 (05061908)	73.70531 (05122615)	73.68923 (05080907)	56.16613 (05121803)	55.00867 (05020512)
3815045.5	58.80901 (05031508)	75.22190 (05080907)	82.24057 (05080607)	63.53872 (05041824)	64.78267 (05010410)

3814970.5	69.50593	(05091102)	82.75665	(05030402)	85.80189	(05122210)
79.38476	(05122412)	68.72078	(05080607)			
3814895.5	78.39685	(05102706)	127.79762	(05020621)	86.81409	(05101210)
88.77756	(05122615)	72.08530	(05032419)			
3814820.5	111.48087	(05022121)	148.64698	(05020621)	93.39702	(05091102)
91.51710	(05122615)	95.75108	(05122412)			
3814745.5	204.98513	(05050802)	167.49883	(05022121)	88.95582	(05022410)
82.75604	(05061908)	105.55894	(05041708)			
3814670.5	414.95399	(05112424)	193.38650	(05050802)	105.81843	(05050807)
107.81454	(05091102)	138.18395	(05102522)			
3814595.5	797.29422	(05110401)	385.84022	(05011018)	183.63707	(05050802)
143.12021	(05051624)	311.89635	(05102522)			
3814520.5	950.11375	(05071403)	865.30946	(05071104)	171.82220	(05070706)
142.03445	(05022205)	544.58724	(05010917)			
3814445.5	989.60645	(05111618)	326.27367	(05022003)	196.83875	(05042405)
183.41379	(05102521)	1132.85846	(05042921)			
3814370.5	392.98289	(05102207)	479.93426	(05102819)	432.26282	(05052706)
636.51857	(05092301)	950.12526	(05081605)			
3814295.5	862.34875	(05082702)	1011.94096	(05082702)	549.01813	(05122317)
1371.32093	(05102819)	1030.71960	(05113020)			
3814220.5	494.10093	(05032601)	613.25909	(05041523)	1209.90627	(05123021)
898.63892	(05072103)	1036.42023	(05100923)			
3814145.5	456.98278	(05051802)	525.36635	(05051802)	647.59027	(05093001)
776.37601	(05072202)	956.12358	(05060724)			
3814070.5	415.22273	(05073005)	444.33221	(05030702)	479.48812	(05021923)
576.27878	(05072202)	710.95027	(05030624)			
3813995.5	317.94958	(05010622)	350.06978	(05121703)	411.88616	(05121703)
485.01272	(05062302)	589.14498	(05041101)			
3813920.5	299.98618	(05031420)	336.65928	(05062302)	385.76354	(05062302)
406.55319	(05062302)	452.30915	(05010208)			
3813845.5	305.36951	(05031420)	308.57643	(05032524)	332.06827	(05062804)
334.43386	(05041101)	347.95909	(05082502)			
3813770.5	261.51803	(05062302)	290.89390	(05032524)	251.13893	(05032524)
252.06192	(05062303)	288.29776	(05082504)			
3813695.5	259.33233	(05032524)	216.59959	(05032524)	196.55853	(05062303)
215.60805	(05100624)	278.96803	(05122323)			
3813620.5	178.33145	(05032524)	201.86521	(05082504)	192.67378	(05100624)
220.06736	(05101424)	284.87403	(05020504)			
3813545.5	189.88723	(05021005)	48.79605	(05012622)	145.88139	(05122323)
566.91104	(05062805)	221.80869	(05020504)			
3813470.5	68.66697	(05062804)	17.28656	(05022224)	87.06729	(05122323)
241.05961	(05020504)	212.94318	(05062303)			
3813395.5	115.87303	(05082504)	169.75974	(05031105)	91.69832	(05031105)
240.00121	(05020504)	197.58420	(05012101)			
3813320.5	122.65560	(05100624)	151.06224	(05122323)	401.17088	(05020504)
157.59101	(05021005)	354.67474	(05111802)			
3813245.5	186.05480	(05031105)	158.08194	(05122323)	135.35515	(05020504)
125.22870	(05012101)	178.24199	(05011802)			
3813170.5	123.82280	(05122323)	135.55898	(05020504)	112.68518	(05031419)
130.01555	(05012101)	136.01090	(05122323)			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 349670.28	349745.28	349820.28	349895.28	349970.28
3816095.5	52.26210 (05122512)	45.67592 (05061506)	45.99888 (05101708)	56.00300 (05081908)	57.58605 (05022510)
3816020.5	53.35003 (05060707)	51.71949 (05113009)	48.89677 (05102519)	63.27575 (05122413)	58.97432 (05080707)
3815945.5	57.33767 (05012212)	55.11976 (05062008)	57.21754 (05031710)	67.26854 (05102519)	66.08624 (05013009)
3815870.5	64.97104 (05110924)	67.05594 (05021309)	75.20148 (05032223)	87.16481 (05102519)	108.67214 (05060222)
3815795.5	68.20137 (05042109)	71.21191 (05061106)	90.61693 (05070306)	127.54670 (05030323)	152.92580 (05110324)
3815720.5	58.57335 (05061206)	72.56364 (05061106)	97.28574 (05030323)	148.77174 (05030323)	133.31153 (05102204)
3815645.5	66.54431 (05061506)	76.92571 (05110924)	78.70545 (05011020)	87.85404 (05030323)	142.64152 (05070206)
3815570.5	65.66080 (05011712)	70.88157 (05113009)	61.97088 (05102418)	79.93272 (05032223)	82.64866 (05031518)
3815495.5	63.67873 (05020512)	65.08689 (05122512)	62.12138 (05081008)	74.76876 (05101708)	64.78527 (05122413)
3815420.5	60.64677 (05012211)	67.06803 (05060707)	63.10773 (05051107)	72.53873 (05081908)	64.77125 (05122413)
3815345.5	38.51375 (05092307)	70.72980 (05060707)	62.84762 (05031710)	73.16955 (05081908)	64.29344 (05122810)
3815270.5	44.54725 (05122809)	49.67857 (05102411)	42.77593 (05092307)	49.62365 (05081908)	45.67114 (05120811)
3815195.5	62.27610 (05061206)	71.16428 (05012212)	68.40293 (05113009)	53.49525 (05081908)	75.07015 (05060510)
3815120.5	51.25843 (05111710)	78.26750 (05102411)	74.90636 (05111811)	80.08761 (05081908)	81.44884 (05122312)
3815045.5	72.55360 (05060906)	80.73296 (05020512)	85.16395 (05113009)	86.61793 (05111811)	84.70554 (05122312)

3814970.5	77.24250	(05011712)	82.63348	(05062008)	93.19073	(05113009)	95.35697	(05081908)
87.42270	(05112910)							
3814895.5	84.27822	(05050820)	92.20681	(05122809)	102.77473	(05113009)	104.50021	(05081908)
86.83870	(05101009)							
3814820.5	99.51620	(05122603)	106.76679	(05041610)	114.95681	(05102411)	112.55978	(05081908)
89.81134	(05022510)							
3814745.5	108.78122	(05032419)	122.24270	(05020512)	130.10887	(05113009)	124.98763	(05081008)
103.62177	(05022510)							
3814670.5	129.90434	(05122210)	143.34665	(05122311)	193.11425	(05070506)	146.44556	(05111811)
130.88344	(05021012)							
3814595.5	367.45128	(05021218)	256.47799	(05021904)	270.68458	(05121722)	174.70846	(05031710)
155.66029	(05122810)							
3814520.5	508.01880	(05022422)	612.28740	(05122619)	245.26527	(05102205)	174.00683	(05112910)
162.69169	(05012410)							
3814445.5	1546.83986	(05091201)	982.44851	(05042922)	328.17278	(05030322)	255.41012	(05051107)
208.46612	(05120211)							
3814370.5	1699.35103	(05092101)	426.82177	(05090922)	264.45702	(05122809)	332.16485	(05080707)
327.23535	(05042508)							
3814295.5	989.65001	(05032507)	320.89339	(05100408)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)							
3814220.5	413.02894	(05010803)	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)							
3814145.5	1344.64823	(05062401)	0.00000	(00000000)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)							
3814070.5	877.82820	(05073005)	1613.91496	(05122319)	0.00000	(00000000)	0.00000	(00000000)
0.00000	(00000000)							
3813995.5	662.88428	(05082502)	873.09833	(05040123)	1090.12348	(05092201)	1399.54598	(05020304)
1571.69161	(05010105)							
3813920.5	519.39505	(05082502)	667.20426	(05122323)	722.03512	(05082504)	754.60192	(05082504)
1009.97730	(05011708)							
3813845.5	417.64522	(05101424)	490.63760	(05021005)	513.45803	(05100624)	528.17238	(05082502)
641.02473	(05011708)							
3813770.5	391.55317	(05020504)	411.87232	(05120403)	385.24612	(05082502)	392.85066	(05082502)
477.01537	(05120903)							
3813695.5	296.66562	(05111802)	342.23139	(05122323)	312.39703	(05011923)	312.81611	(05120903)
382.83752	(05020102)							
3813620.5	239.90519	(05012101)	259.35572	(05122323)	267.09182	(05011923)	245.06830	(05082502)
317.50294	(05030420)							
3813545.5	238.55041	(05012101)	197.35310	(05101424)	232.87797	(05011923)	201.79946	(05082502)
264.54301	(05030420)							
3813470.5	230.80223	(05011802)	164.42121	(05082502)	209.08786	(05011923)	169.55384	(05082504)
225.05137	(05011804)							
3813395.5	220.66576	(05122323)	155.82247	(05011804)	191.55022	(05120403)	144.81770	(05082504)
193.21882	(05020304)							
3813320.5	170.33556	(05031105)	227.61505	(05031419)	191.78487	(05120403)	125.38594	(05082502)
171.64515	(05011803)							
3813245.5	133.60636	(05101424)	145.29171	(05031419)	174.89824	(05111802)	133.65149	(05082504)
165.49435	(05021608)							
3813170.5	94.33171	(05031105)	127.83349	(05031419)	156.89797	(05111802)	102.04047	(05020304)
170.09896	(05120903)							

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350045.28	350120.28	350195.28	350270.28	350345.28
3816095.5	57.36413 (05122312)	45.73302 (05101009)	54.06784 (05060510)	33.14588 (05122810)	39.97063 (05060807)
3816020.5	57.43267 (05122312)	69.48063 (05041901)	67.43637 (05031223)	88.85821 (05111003)	71.07931 (05020703)
3815945.5	59.16564 (05122810)	101.77764 (05021905)	99.80112 (05071206)	145.45399 (05040405)	257.83457 (05082903)
3815870.5	104.97537 (05061603)	129.23009 (05110117)	173.15252 (05022401)	238.15538 (05082903)	382.75548 (05061804)
3815795.5	225.22230 (05012721)	266.38495 (05070206)	304.15736 (05091523)	341.79395 (05111718)	396.73383 (05122621)
3815720.5	161.46277 (05061603)	348.16842 (05082203)	421.15717 (05082622)	411.24277 (05090302)	426.03458 (05111718)
3815645.5	208.80407 (05022722)	342.19062 (05110403)	403.09922 (05101920)	431.16303 (05122621)	392.40404 (05080503)
3815570.5	158.05426 (05110117)	177.14111 (05022807)	169.50165 (05040405)	460.86806 (05061804)	475.71204 (05060902)
3815495.5	64.22884 (05060222)	85.73928 (05020721)	61.42128 (05111019)	142.72127 (05011917)	297.22224 (05082424)
3815420.5	62.14341 (05022510)	58.63548 (05122810)	54.68276 (05012410)	93.78567 (05050522)	143.56241 (05011517)
3815345.5	60.27498 (05022510)	54.18733 (05122810)	48.48586 (05012410)	54.51722 (05120211)	93.15299 (05041905)
3815270.5	46.16597 (05030710)	38.28069 (05052109)	57.29124 (05121709)	62.13738 (05050520)	77.28307 (05120511)
3815195.5	58.55665 (05052911)	41.14958 (05060807)	66.52791 (05121709)	58.32668 (05041409)	76.48621 (05042508)
3815120.5	62.35349 (05021012)	46.53183 (05012410)	63.66072 (05050608)	63.88656 (05042508)	78.88120 (05090107)
3815045.5	72.61801 (05120211)	60.47232 (05121709)	56.00127 (05021710)	81.43807 (05042508)	79.83946 (05012011)

3814970.5	74.74709	(05122810)	59.16752	(05121709)	71.09122	(05060807)
85.46206	(05091307)	80.54340	(05102010)			
3814895.5	63.50463	(05060807)	64.29346	(05050608)	82.61244	(05042508)
89.33699	(05042508)	84.95914	(05081107)			
3814820.5	85.10072	(05012410)	75.74378	(05021710)	93.14521	(05091307)
94.60361	(05102010)	95.98174	(05010412)			
3814745.5	98.01981	(05121709)	104.24846	(05090107)	94.81662	(05042508)
95.46393	(05082607)	92.15250	(05030510)			
3814670.5	125.47658	(05050608)	126.06721	(05120511)	116.45019	(05081107)
103.07286	(05112016)	97.47970	(05052108)			
3814595.5	146.04620	(05021710)	136.96155	(05110409)	124.81967	(05121210)
107.69955	(05041108)	115.10124	(05082808)			
3814520.5	148.65398	(05072208)	142.49947	(05082607)	126.41826	(05110508)
114.44230	(05052108)	126.51909	(05103112)			
3814445.5	210.97407	(05100109)	152.70299	(05112016)	139.46966	(05091707)
124.97895	(05111509)	132.39815	(05013011)			
3814370.5	242.21669	(05030510)	225.61961	(05091707)	153.05712	(05083007)
169.34178	(05122116)	259.73380	(05121708)			
3814295.5	333.56965	(05112211)	238.99235	(05092509)	178.06044	(05111408)
230.98552	(05031318)	590.66245	(05092707)			
3814220.5	805.99555	(05111409)	359.27141	(05060606)	255.01672	(05040507)
196.18450	(05010409)	581.04270	(05101724)			
3814145.5	1359.44857	(05021208)	1152.89005	(05021406)	224.67011	(05012409)
295.96875	(05033107)	213.55354	(05122708)			
3814070.5	607.92267	(05120108)	1223.29735	(05121103)	321.81141	(05112308)
306.55057	(05062106)	285.63532	(05111908)			
3813995.5	1156.47324	(05122104)	1344.25746	(05122808)	908.94616	(05122002)
1057.32905	(05022323)	283.87539	(05032007)			
3813920.5	846.46691	(05112104)	889.02705	(05122405)	1401.29705	(05020905)
298.00692	(05021607)	287.34954	(05100707)			
3813845.5	703.77074	(05122024)	714.77044	(05012002)	1237.77135	(05011606)
998.64726	(05123024)	563.97743	(05111804)			
3813770.5	569.79227	(05011708)	667.37001	(05011722)	630.84605	(05012005)
551.76879	(05011601)	528.22170	(05011621)			
3813695.5	582.43405	(05112702)	532.04525	(05122024)	449.22517	(05020404)
439.07883	(05112205)	426.42052	(05120601)			
3813620.5	366.69579	(05101701)	392.32711	(05020102)	392.89378	(05122107)
375.65028	(05120605)	374.04174	(05012005)			
3813545.5	287.53915	(05011708)	340.78667	(05013106)	332.26958	(05122024)
332.62862	(05112104)	312.36304	(05112205)			
3813470.5	249.99059	(05020305)	278.53710	(05112702)	293.19001	(05031504)
297.97259	(05121906)	284.63379	(05112002)			
3813395.5	217.81087	(05010506)	226.12113	(05101701)	275.73542	(05013106)
258.65332	(05122024)	262.75232	(05112105)			
3813320.5	195.49897	(05112704)	204.32577	(05011708)	229.18285	(05013106)
224.15683	(05011605)	236.10030	(05121906)			
3813245.5	183.98828	(05030420)	182.09531	(05020305)	191.49555	(05112702)
213.61743	(05020102)	208.67086	(05122103)			
3813170.5	180.36072	(05030420)	168.95044	(05020305)	163.74398	(05120406)
197.70728	(05013106)	182.92491	(05011708)			

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350420.28	350495.28	350570.28	350645.28	350720.28
3816095.5	66.16724 (05061523)	41.38201 (05041905)	58.16467 (05011917)	36.69789 (05032807)	48.94678 (05061406)
3816020.5	77.63404 (05060224)	113.43804 (05032222)	122.69656 (05121804)	65.15098 (05111217)	104.05833 (05071506)
3815945.5	341.31499 (05090301)	257.06905 (05090301)	293.01602 (05060901)	233.34630 (05020622)	337.02019 (05022623)
3815870.5	372.21224 (05080503)	384.83991 (05082003)	358.48368 (05092601)	328.91712 (05020622)	134.16684 (05081523)
3815795.5	369.18189 (05060902)	139.26008 (05032222)	285.36461 (05042705)	143.57415 (05060501)	140.66903 (05040722)
3815720.5	154.04005 (05121804)	148.34007 (05120517)	149.46191 (05030423)	151.50904 (05081523)	147.85464 (05092804)
3815645.5	164.48967 (05061601)	160.80883 (05011517)	160.23922 (05060501)	156.73924 (05040722)	145.35974 (05111018)
3815570.5	442.43700 (05062603)	169.69487 (05120517)	170.67845 (05081523)	168.98115 (05081424)	145.36911 (05102407)
3815495.5	115.39335 (05032222)	416.70382 (05060521)	360.74439 (05031923)	171.50763 (05111018)	145.91502 (05031906)
3815420.5	298.83365 (05040122)	482.68888 (05060521)	449.08367 (05022623)	170.57593 (05111018)	156.38685 (05092804)
3815345.5	176.66041 (05121706)	222.49374 (05102307)	323.01081 (05030905)	451.86026 (05012522)	176.53253 (05041820)
3815270.5	76.81258 (05031308)	69.80100 (05031308)	93.99520 (05033118)	290.64571 (05122618)	88.27221 (05032618)
3815195.5	71.71669 (05012011)	62.89128 (05022409)	69.89775 (05051408)	73.25362 (05101909)	81.65294 (05020704)
3815120.5	72.15133 (05031308)	68.81676 (05081107)	71.49689 (05022409)	74.83212 (05041108)	67.33002 (05050707)
3815045.5	74.33697 (05120110)	77.99806 (05010412)	76.64938 (05101411)	67.37499 (05101410)	71.83975 (05082808)

3814970.5	81.65901	(05051408)	83.86159	(05050707)	72.92382
(05081907)	75.35824	(05082808)	76.35171	(05121016)	
3814895.5	89.99706	(05101909)	87.52905	(05112016)	83.43603
(05051807)	84.23438	(05092710)	82.08267	(05041707)	
3814820.5	92.54522	(05101909)	90.49725	(05110508)	127.65427
(05102403)	210.56436	(05120308)	472.95805	(05051001)	
3814745.5	85.87359	(05052108)	90.57376	(05100708)	85.62403
(05080309)	83.19675	(05091319)	80.15332	(05083007)	
3814670.5	102.98390	(05082808)	95.17553	(05032308)	88.40318
(05073007)	103.12031	(05120306)	171.14390	(05021308)	
3814595.5	111.34762	(05032308)	128.16355	(05120307)	97.80439
(05083007)	154.79025	(05111023)	740.76502	(05062304)	
3814520.5	230.16667	(05032422)	473.72697	(05051702)	545.51775
(05010322)	313.31846	(05122617)	323.76937	(05060520)	
3814445.5	124.64405	(05122116)	203.45705	(05121708)	853.94446
(05112818)	368.54076	(05011124)	321.59715	(05122508)	
3814370.5	241.75301	(05092107)	131.02027	(05031318)	214.98340
(05031318)	716.75479	(05090601)	504.98678	(05042903)	
3814295.5	1135.95174	(05121401)	860.75998	(05100502)	514.87760
(05030106)	638.26116	(05012707)	583.38708	(05122623)	
3814220.5	605.53784	(05101702)	508.54471	(05080804)	445.21321
(05051024)	404.78816	(05121004)	207.46123	(05012823)	
3814145.5	1144.74454	(05112921)	478.04886	(05042824)	387.95744
(05042824)	410.88243	(05121308)	355.45928	(05042824)	
3814070.5	575.42470	(05030123)	451.72542	(05111022)	364.70909
(05012908)	335.43473	(05111022)	313.85364	(05021104)	
3813995.5	542.77947	(05021323)	423.11770	(05112120)	381.05257
(05021702)	316.39076	(05092606)	277.22884	(05120221)	
3813920.5	552.33489	(05120817)	488.78114	(05121106)	339.41827
(05090404)	303.40816	(05101304)	267.16428	(05031522)	
3813845.5	687.01464	(05021421)	892.63097	(05040206)	419.26133
(05120817)	378.84252	(05013020)	280.95926	(05112120)	
3813770.5	447.51775	(05092605)	425.25588	(05120904)	384.86376
(05120904)	796.99891	(05103103)	697.01023	(05120520)	
3813695.5	362.29719	(05020319)	352.23171	(05112204)	378.72708
(05122002)	335.88527	(05120524)	286.98644	(05012008)	
3813620.5	326.89879	(05031501)	314.39175	(05122403)	308.99159
(05122403)	311.68430	(05111804)	257.86071	(05120904)	
3813545.5	297.99595	(05111705)	303.75959	(05031501)	264.91527
(05122403)	310.89586	(05020319)	236.80867	(05031104)	
3813470.5	271.02495	(05012005)	257.17031	(05111722)	274.86230
(05031501)	257.13036	(05013023)	229.74971	(05031104)	
3813395.5	249.00167	(05120605)	235.55997	(05112004)	230.64470
(05120601)	253.67881	(05122101)	254.34043	(05013023)	
3813320.5	231.47543	(05031503)	219.36130	(05112002)	208.74503
(05112205)	224.80969	(05122106)	200.65618	(05111901)	
3813245.5	215.03647	(05011722)	205.83957	(05011604)	195.86190
(05012003)	187.85840	(05111722)	207.50851	(05122405)	
3813170.5	193.08543	(05121906)	192.57126	(05112104)	184.57936
(05120605)	176.12570	(05012005)	173.80243	(05120604)	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350795.28	350870.28	350945.28	351020.28	351095.28
3816095.5	305.12904 (05020622)	133.23839 (05050720)	72.61097 (05052606)	76.86466 (05021205)	259.86016 (05062902)
3816020.5	183.55566 (05081905)	329.15604 (05110806)	142.19372 (05040304)	335.27325 (05052705)	249.25003 (05061824)
3815945.5	324.32561 (05050601)	120.95693 (05040722)	335.34499 (05012522)	267.54116 (05120720)	95.67161 (05102407)
3815870.5	341.52217 (05123107)	122.44084 (05111018)	318.64851 (05100105)	101.82696 (05031906)	105.02191 (05041820)
3815795.5	134.10595 (05040722)	118.75568 (05032521)	111.65804 (05051606)	115.53766 (05102703)	111.33112 (05030320)
3815720.5	134.15518 (05111018)	118.91011 (05031906)	115.81888 (05102703)	116.53077 (05021101)	111.23135 (05061721)
3815645.5	122.57169 (05081523)	120.26611 (05031906)	123.22862 (05041820)	120.84100 (05051606)	102.41903 (05081422)
3815570.5	130.27723 (05051606)	131.76662 (05041820)	133.15219 (05051606)	119.07069 (05081422)	103.64836 (05071003)
3815495.5	141.90818 (05102703)	142.69445 (05121618)	128.60371 (05081422)	108.68058 (05102222)	104.62799 (05042119)
3815420.5	160.21800 (05021101)	148.16405 (05061721)	116.21458 (05102719)	110.89994 (05042119)	107.69561 (05040121)
3815345.5	169.95723 (05051606)	137.96322 (05100519)	130.37673 (05102703)	123.68184 (05040121)	123.53401 (05070906)
3815270.5	469.01767 (05022806)	159.12926 (05102703)	153.83699 (05040121)	148.30616 (05070906)	128.82325 (05102202)
3815195.5	331.50204 (05051904)	465.02645 (05051222)	390.75221 (05051222)	167.27008 (05102202)	155.29850 (05032921)
3815120.5	98.46859 (05012623)	123.11885 (05102222)	116.24993 (05042424)	183.94681 (05061620)	370.12546 (05062605)
3815045.5	74.00557 (05021511)	75.36929 (05080309)	147.83256 (05010701)	501.73733 (05051001)	479.90050 (05081506)

3814970.5	87.63019 (05120303)	98.73905 (05120308)	81.18793 (05021207)
	124.10022 (05032422)	398.93782 (05062505)	
3814895.5	183.10858 (05062006)	409.79347 (05110119)	136.66344 (05012618)
	253.30678 (05021422)	428.03595 (05021422)	
3814820.5	597.23191 (05080102)	607.14409 (05102921)	408.18034 (05091723)
	281.97100 (05110807)	519.89568 (05120719)	
3814745.5	384.17704 (05082801)	583.94597 (05081906)	224.38573 (05102402)
	568.71318 (05062304)	404.53003 (05051906)	
3814670.5	137.14666 (05010322)	639.44069 (05062304)	602.24461 (05090502)
	217.19077 (05060520)	200.90860 (05060520)	
3814595.5	663.33908 (05090502)	265.11621 (05122706)	516.62380 (05112818)
	561.33355 (05061005)	203.20276 (05021324)	
3814520.5	277.29978 (05060520)	237.88603 (05021324)	222.54295 (05061723)
	224.66118 (05122508)	213.23586 (05032301)	
3814445.5	733.58272 (05030207)	274.30915 (05021324)	234.53953 (05122508)
	193.11843 (05031523)	211.23444 (05061722)	
3814370.5	308.54068 (05050604)	265.89289 (05011707)	250.36553 (05120907)
	196.64830 (05120907)	200.68408 (05061722)	
3814295.5	327.96608 (05011703)	269.39381 (05011121)	216.37844 (05051221)
	197.12869 (05100521)	190.51250 (05041324)	
3814220.5	391.35958 (05101821)	276.18778 (05020419)	247.89067 (05020419)
	199.12346 (05020419)	180.52235 (05091924)	
3814145.5	709.38383 (05122123)	598.27746 (05122122)	238.41346 (05120321)
	236.05258 (05120321)	181.95039 (05111020)	
3814070.5	286.32007 (05012908)	288.74146 (05021104)	266.24205 (05050922)
	233.78322 (05020318)	178.47210 (05021104)	
3813995.5	271.40465 (05101619)	232.70532 (05011122)	215.21322 (05111022)
	216.70296 (05111022)	191.65252 (05031423)	
3813920.5	243.79084 (05011622)	224.96540 (05021702)	202.90108 (05092606)
	188.57131 (05042823)	176.76748 (05011622)	
3813845.5	241.10651 (05102505)	207.26932 (05050921)	195.68091 (05042901)
	183.96901 (05042901)	171.14777 (05042901)	
3813770.5	259.48818 (05120817)	239.09688 (05121106)	210.95187 (05011908)
	170.76219 (05011308)	159.55473 (05050921)	
3813695.5	225.84080 (05121908)	210.06701 (05120817)	190.73662 (05120817)
	175.74418 (05121106)	155.15450 (05112120)	
3813620.5	205.58336 (05111906)	189.30352 (05121103)	181.64798 (05020223)
	173.10000 (05120817)	159.19611 (05030124)	
3813545.5	205.78705 (05112824)	185.78665 (05120524)	172.19600 (05120904)
	157.73799 (05051022)	154.83443 (05121908)	
3813470.5	196.16948 (05013104)	183.34929 (05031506)	171.48078 (05120904)
	151.93508 (05021607)	144.63890 (05112124)	
3813395.5	191.47250 (05120603)	172.72402 (05112204)	163.46929 (05011508)
	155.32622 (05112824)	143.23763 (05120524)	
3813320.5	180.99438 (05013023)	167.23857 (05013104)	154.10215 (05122403)
	146.70677 (05011508)	141.02504 (05011508)	
3813245.5	170.29256 (05111901)	157.63286 (05120603)	150.21102 (05013104)
	142.21708 (05032805)	133.87579 (05092605)	
3813170.5	164.70657 (05011507)	151.50140 (05111901)	143.58306 (05122101)
	137.18462 (05011621)	131.65456 (05020319)	

*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** 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)
350508.88	3814829.88	92.45265	(05020719)	350283.70	3815266.49	61.80010	(05031618)
350539.82	3814604.70	99.60118	(05083007)	350467.63	3814245.45	554.69192	(05101620)
350008.68	3813941.20	969.32900	(05013106)	350147.91	3813936.04	845.63725	(05013023)
350557.01	3814453.44	848.68756	(05072205)	349200.78	3815251.02	47.89670	(05061908)
349173.28	3815257.89	44.85465	(05102503)	348862.58	3814174.11	278.58005	(05060724)
348862.58	3815183.55	58.05437	(05022523)	350494.71	3815179.68	66.18050	(05022409)
350486.97	3814363.62	148.02640	(05111609)	350216.24	3814363.62	160.38260	(05022408)
350216.24	3814193.45	222.85400	(05060606)	349991.92	3813969.12	1236.05958	(05122103)
349794.67	3813961.39	851.20409	(05082504)	349597.42	3814065.81	725.76633	(05073102)
349121.71	3814085.15	359.45146	(05041301)				

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28
3816095.5	8.73941 (05051624)	9.13922 (05051624)	8.64237 (05060924)	8.26110 (05022208)	6.89166 (05022208)
3816020.5	11.83822 (05051624)	11.85899 (05051624)	9.34072 (05051624)	7.92981 (05022208)	7.95629 (05022208)
3815945.5	13.33284 (05051624)	13.87798 (05051624)	11.35611 (05051624)	7.43188 (05051624)	8.89310 (05022208)
3815870.5	15.32959 (05010424)	15.37354 (05051624)	14.53934 (05051624)	12.00783 (05051624)	9.17327 (05051624)
3815795.5	16.33206 (05010424)	16.41330 (05010424)	16.61986 (05051624)	16.10979 (05051624)	12.14909 (05051624)
3815720.5	16.61861 (05010424)	17.61177 (05010424)	17.15288 (05010424)	14.10582 (05010424)	13.07137 (05051624)
3815645.5	15.29869 (05010424)	17.68762 (05010424)	18.50333 (05010424)	16.45821 (05010424)	15.31830 (05010424)
3815570.5	15.41990 (05070708)	18.75250 (05070708)	18.49248 (05010424)	17.24374 (05010424)	18.19430 (05010424)
3815495.5	15.84609 (05070708)	25.63100 (05070708)	17.30400 (05070708)	15.67936 (05010424)	21.63844 (05010424)
3815420.5	27.18829 (05092524)	29.52826 (05070708)	19.27696 (05070708)	13.67396 (05010424)	22.17286 (05062624)
3815345.5	30.99216 (05022008)	35.27746 (05092524)	20.40982 (05092524)	14.87547 (05051924)	37.68739 (05070708)
3815270.5	39.03959 (05022008)	37.84496 (05022008)	25.65610 (05022008)	22.03725 (05092524)	52.33811 (05070708)
3815195.5	42.00756 (05022008)	44.52378 (05022008)	36.29254 (05022008)	29.67424 (05022008)	59.35202 (05092524)
3815120.5	54.74867 (05121324)	43.52068 (05121324)	39.93043 (05022008)	32.59729 (05022008)	43.18290 (05022008)
3815045.5	65.84250 (05121324)	62.77758 (05121324)	50.22916 (05121324)	37.38508 (05022008)	44.78377 (05022008)

3814970.5 | 50.94756 (05121324) 48.48014 (05121324) 37.74655
(05121324) 30.04285 (05121324) 28.90365 (05022008)
3814895.5 | 24.53040 (05122224) 21.68584 (05070624) 20.01513
(05070624) 23.23835 (05070624) 30.19911 (05121324)
3814820.5 | 30.09330 (05122224) 35.10012 (05122224) 22.22048
(05122224) 30.32630 (05122224) 35.43960 (05031124)
3814745.5 | 49.76739 (05122224) 67.10200 (05122224) 45.75143
(05122224) 63.42295 (05122224) 65.34002 (05031124)
3814670.5 | 102.65884 (05062208) 97.50459 (05062208) 73.69217
(05122724) 71.15964 (05122224) 103.07023 (05122224)
3814595.5 | 127.24568 (05062208) 131.86761 (05062208) 131.34419
(05062208) 140.24966 (05062208) 135.04544 (05062208)
3814520.5 | 109.53677 (05062208) 119.66178 (05062208) 118.10061
(05062208) 120.99686 (05062208) 78.69349 (05091908)
3814445.5 | 106.53986 (05110624) 108.09878 (05110624) 105.49289
(05110624) 105.75829 (05110624) 80.00808 (05110624)
3814370.5 | 78.17120 (05110624) 97.50276 (05110624) 104.75295
(05110624) 107.04185 (05110624) 77.68100 (05110624)
3814295.5 | 31.77456 (05060408) 50.50319 (05060408) 73.29023
(05123024) 86.37037 (05123024) 90.93078 (05123024)
3814220.5 | 17.27067 (05060408) 39.99762 (05122308) 71.72984
(05122308) 65.14597 (05122308) 80.55719 (05122308)
3814145.5 | 17.27956 (05122308) 27.81027 (05122308) 17.03054
(05122308) 11.68237 (05060408) 15.53267 (05122308)
3814070.5 | 22.64927 (05021924) 10.67697 (05021924) 6.03921
(05120416) 6.39035 (05120416) 20.81494 (05021924)
3813995.5 | 11.03049 (05021924) 5.87220 (05021016) 6.36770
(05021016) 7.12154 (05021016) 15.47272 (05021924)
3813920.5 | 22.00119 (05021924) 13.45329 (05021924) 8.63247
(05021016) 8.71256 (05021016) 9.06469 (05021016)
3813845.5 | 52.85132m(05061924) 30.72373m(05061924) 7.81111
(05021016) 8.61039 (05120416) 9.75373 (05120416)
3813770.5 | 53.22995m(05061924) 46.83288 (05010624) 24.33027
(05010624) 10.47175 (05120416) 10.87192 (05120416)
3813695.5 | 53.60396 (05010624) 49.66681 (05010624) 16.64897
(05020524) 9.44756 (05020524) 14.02956m(05121708)
3813620.5 | 42.32680 (05010624) 40.82244m(05121708)
32.89354m(05121708) 16.86440m(05121708) 40.49924m(05121708)
3813545.5 | 47.38066m(05121708) 45.21555m(05121708)
17.03766m(05121708) 15.95696m(05121708) 46.73540m(05121708)
3813470.5 | 58.16194m(05121708) 20.08188m(05121708)
37.89869m(05121708) 31.72575m(05121708) 23.87957 (05112224)
3813395.5 | 61.10309 (05112224) 57.92040 (05112224) 83.06703
(05112224) 85.68854 (05112224) 77.06094 (05112224)
3813320.5 | 35.64470 (05112224) 38.09110 (05112224) 84.69262
(05112224) 92.13743 (05112224) 71.16077 (05112224)
3813245.5 | 68.69283 (05112224) 78.82008 (05112224) 79.44146
(05112224) 52.39303 (05112224) 8.85717 (05123024)
3813170.5 | 70.25324 (05112224) 57.12581 (05112224) 21.60732
(05112224) 8.48131 (05123024) 7.39570 (05032524)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348545.28	348620.28	348695.28	348770.28	348845.28
3816095.5	7.77260 (05111216)	9.07142 (05111216)	6.32204 (05111216)	8.63216 (05111216)	8.93362 (05122608)
3816020.5	7.17220 (05022208)	8.62298 (05111216)	9.52660 (05111216)	9.51028 (05111216)	8.44896 (05111216)
3815945.5	8.33533 (05022208)	8.77107 (05060924)	9.29786 (05111216)	10.07289 (05111216)	9.54989 (05111216)
3815870.5	9.69029 (05022208)	11.64275 (05060924)	8.49779 (05111216)	10.11137 (05111216)	10.40539 (05111216)
3815795.5	11.62611 (05060924)	14.12929 (05060924)	12.00628 (05060924)	9.49737 (05111216)	10.77761 (05111216)
3815720.5	16.44747 (05051624)	13.63457 (05060924)	14.68590 (05060924)	12.93592 (05060924)	10.43113 (05111216)
3815645.5	20.67951 (05051624)	16.73821 (05051624)	16.11144 (05060924)	14.80994 (05060924)	10.86073 (05060924)
3815570.5	25.43250 (05051624)	21.67811 (05051624)	13.90413 (05051624)	11.49875 (05022208)	11.33325 (05022208)
3815495.5	23.61377 (05030224)	19.77691 (05051624)	13.60407 (05051624)	10.26473 (05051624)	11.20418 (05022208)
3815420.5	24.00975 (05010424)	20.38822 (05010424)	15.96128 (05010424)	16.47191 (05051624)	11.08455 (05022208)
3815345.5	22.79802 (05010424)	23.30441 (05010424)	24.31203 (05010424)	19.81145 (05010424)	13.75268 (05051624)
3815270.5	35.75362 (05070708)	22.23617 (05010424)	20.84120 (05010424)	18.68800 (05010424)	19.51662 (05010424)
3815195.5	57.77216 (05070708)	36.54580 (05070708)	20.77626 (05010424)	19.96576 (05010424)	26.15029 (05010424)
3815120.5	81.27291 (05092524)	55.46987 (05070708)	32.32480 (05070708)	21.22642 (05010424)	30.67713 (05010424)
3815045.5	77.35972 (05100208)	78.99134 (05092524)	61.37529 (05092524)	29.82714 (05070708)	35.84390 (05070708)

3814970.5 | 73.63142 (05121324) 92.64244 (05111424) 62.01428
(05022008) 40.02547 (05022008) 36.62545 (05070708)
3814895.5 | 64.49443 (05121324) 145.77444 (05121324) 124.01101
(05111424) 75.74895 (05022008) 58.77958 (05022008)
3814820.5 | 46.42784 (05121324) 170.97637 (05121324) 173.53628
(05121324) 79.24721 (05121324) 113.77486 (05111424)
3814745.5 | 56.53407 (05031124) 134.47511 (05121324) 177.85428
(05121324) 190.19121 (05121324) 197.81201 (05121324)
3814670.5 | 114.54272 (05031124) 143.12599 (05031124) 156.53934
(05031124) 181.04154 (05121324) 220.10460 (05121324)
3814595.5 | 139.72289 (05062208) 141.00695 (05122724) 152.23341
(05122724) 156.81306 (05031124) 176.55931 (05031124)
3814520.5 | 86.91074 (05122724) 96.18630 (05122724) 105.95533
(05122724) 139.28102 (05062208) 75.73763 (05122224)
3814445.5 | 85.40495 (05110624) 90.98852 (05110624) 101.13879
(05091908) 181.92889 (05062208) 223.07876 (05062208)
3814370.5 | 84.90388 (05110624) 92.91353 (05110624) 101.44672
(05110624) 110.93749 (05110624) 121.80151 (05110624)
3814295.5 | 94.99577 (05110624) 78.64758 (05110624) 87.85510
(05110624) 98.26245 (05110624) 109.95892 (05110624)
3814220.5 | 92.12605 (05122308) 70.77718 (05122308) 77.34730
(05012124) 83.88071 (05122308) 91.23820 (05122308)
3814145.5 | 77.97729 (05012124) 114.65464 (05012124) 75.80756
(05012124) 82.33591 (05012124) 88.13353 (05122308)
3814070.5 | 76.95789 (05021924) 100.49051 (05012124) 103.10056
(05012124) 72.76784 (05012124) 75.95020 (05122308)
3813995.5 | 50.48665 (05021924) 58.99392 (05021924) 74.08471
(05021924) 92.83333m(05061924) 74.64729 (05010124)
3813920.5 | 15.73883 (05021924) 12.13037 (05123124)
19.33098m(05061924) 79.03913m(05061924) 71.52823 (05010124)
3813845.5 | 10.77700 (05120416) 11.73894 (05120416) 12.46766
(05120416) 22.75046 (05010624) 70.16776 (05010124)
3813770.5 | 10.92821 (05120416) 10.71672 (05120416) 10.17991
(05120416) 40.77464m(05121708) 69.63271 (05112224)
3813695.5 | 22.04402m(05121708) 46.06944m(05121708)
63.35924m(05121708) 106.18373 (05112224) 119.53276 (05112224)
3813620.5 | 71.24443m(05121708) 81.80381m(05121708) 112.58789
(05112224) 130.09584 (05112224) 145.40330 (05112224)
3813545.5 | 68.87782 (05112224) 59.71009 (05112224) 120.58828
(05112224) 107.09852 (05112224) 73.95420 (05112224)
3813470.5 | 13.29459 (05112224) 14.66731 (05112224) 85.69852
(05112224) 49.80966 (05112224) 14.24815 (05123024)
3813395.5 | 16.17757 (05112224) 10.10694 (05030624) 30.13934
(05112224) 11.85941 (05123024) 9.56779 (05120316)
3813320.5 | 47.98024 (05112224) 9.20956 (05032524) 8.27894
(05120316) 9.31532 (05120316) 8.90514 (05120316)
3813245.5 | 8.09703 (05032524) 8.27301 (05120316) 8.83863
(05120316) 8.26405 (05120316) 10.31564 (05062808)
3813170.5 | 9.73714 (05082724) 8.51751 (05120316) 7.61471
(05120316) 7.61512 (05062808) 8.86512 (05062808)

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 348920.28	348995.28	349070.28	349145.28	349220.28
3816095.5	9.85707 (05122608)	11.46982 (05122608)	9.26043 (05122608)	7.77526 (05122608)	7.08942 (05111716)
3816020.5	9.74313 (05122608)	12.57012 (05122608)	10.95986 (05122608)	10.05257 (05011216)	6.68168 (05111716)
3815945.5	10.17500 (05122608)	13.45827 (05122608)	12.21534 (05122608)	12.54314 (05122608)	8.17351 (05122608)
3815870.5	10.26476 (05050708)	13.02041 (05122608)	14.82842 (05122608)	15.00495 (05122608)	11.63568 (05122608)
3815795.5	10.57780 (05111216)	12.99383 (05122608)	16.32931 (05122608)	17.18791 (05122608)	14.77748 (05122608)
3815720.5	11.31101 (05111216)	13.80656 (05050708)	16.50505 (05122608)	18.62187 (05122608)	17.69463 (05122608)
3815645.5	11.30146 (05111216)	12.39663 (05050708)	15.87608 (05050708)	19.38502 (05122608)	19.97159 (05122608)
3815570.5	10.42427 (05111216)	12.19479 (05111216)	16.51758 (05050708)	18.94243 (05122608)	19.65458 (05122608)
3815495.5	11.46697 (05022208)	11.68938 (05111216)	16.47858 (05021724)	16.56731 (05122608)	18.58878 (05122608)
3815420.5	12.76711 (05022208)	15.36142 (05060924)	17.62229 (05021724)	17.65378 (05050708)	20.21306 (05122608)
3815345.5	13.47534 (05022208)	21.15205 (05060924)	20.48724 (05060924)	14.06735 (05111216)	14.07605 (05122608)
3815270.5	18.19950 (05051624)	20.95416 (05060924)	29.00038 (05060924)	14.08030 (05110908)	15.16292 (05050708)
3815195.5	25.91467 (05051624)	36.00850 (05051624)	24.97860 (05060924)	20.04135 (05060924)	15.30840 (05111216)
3815120.5	34.37847 (05010424)	43.37643 (05030224)	32.26510 (05051624)	22.18788 (05060924)	15.61801 (05022208)
3815045.5	44.50455 (05092624)	43.88001 (05092624)	27.83535 (05010424)	24.47227 (05051624)	20.84030 (05022208)

3814970.5	102.35644	(05070708)	70.23314	(05070708)	48.62756
(05092624)	35.14881	(05051624)	20.60128	(05022208)	
3814895.5	128.08019	(05070708)	79.30049	(05070708)	40.36922
(05010424)	37.30456	(05010424)	32.40865	(05010424)	
3814820.5	158.22425	(05092524)	117.42274	(05070708)	69.57850
(05070708)	69.47608	(05070708)	52.93988	(05010424)	
3814745.5	188.77028	(05111424)	77.37329	(05022008)	108.44730
(05070708)	100.80512	(05070708)	85.38931	(05070708)	
3814670.5	210.24354	(05121324)	118.47861	(05121324)	154.38981
(05111424)	201.42978	(05070708)	197.46911	(05070708)	
3814595.5	71.96112	(05031124)	132.79889	(05121324)	296.30016
(05121324)	324.06571	(05111424)	290.73148	(05111424)	
3814520.5	101.76942	(05122224)	154.39014	(05031124)	263.91412
(05121324)	227.04850	(05121324)	359.79346	(05121324)	
3814445.5	233.70009	(05062208)	253.58643	(05062208)	261.86646
(05062208)	194.54844	(05113024)	243.87375	(05121324)	
3814370.5	132.24041	(05110624)	148.72333	(05091908)	174.76454
(05091908)	203.11781	(05091908)	238.11421	(05091908)	
3814295.5	122.81004	(05110624)	138.41821	(05110624)	157.17696
(05110624)	182.52076	(05110624)	211.19409	(05110624)	
3814220.5	99.87373	(05122308)	109.77217	(05122308)	122.10199
(05122308)	136.79342	(05122308)	158.74687	(05110624)	
3814145.5	96.79408	(05122308)	106.45079	(05122308)	118.60099
(05122308)	132.42355	(05122308)	150.24904	(05122308)	
3814070.5	84.29660	(05122308)	94.17461	(05122308)	103.23118
(05122308)	114.05837	(05122308)	126.53949	(05122308)	
3813995.5	83.66800	(05010124)	88.57586	(05010124)	86.36563
(05122308)	96.07780	(05010124)	111.82961	(05010124)	
3813920.5	72.51755	(05010124)	77.51600	(05010124)	83.46682
(05010124)	94.98919	(05112224)	114.90835	(05112224)	
3813845.5	76.20882	(05010124)	84.73609	(05112224)	102.46254
(05112224)	198.06534	(05112224)	145.84657	(05112224)	
3813770.5	60.86186m	(05121708)	49.62719m	(05121708)	100.98068
(05112224)	107.24562	(05112224)	136.83337	(05112224)	
3813695.5	49.38292	(05112224)	7.92120	(05020124)	11.51533
(05020124)	79.22113	(05112224)	115.89201	(05112224)	
3813620.5	41.05123	(05112224)	10.69319	(05020124)	11.29924
(05020124)	12.66215	(05020124)	28.93768	(05082608)	
3813545.5	84.60392	(05112224)	23.87480	(05123024)	12.03953
(05082724)	52.23173	(05012024)	94.71853	(05010208)	
3813470.5	22.99293	(05123024)	28.36312	(05082608)	13.56560
(05062808)	16.69010	(05010208)	76.75293	(05010208)	
3813395.5	9.62566	(05120316)	16.73633	(05062808)	13.31335
(05062808)	57.71671	(05010208)	41.05897	(05010208)	
3813320.5	8.06384	(05062808)	9.34080	(05062808)	20.04661
(05010208)	90.07988	(05010208)	85.88194	(05010208)	
3813245.5	14.97261	(05012024)	54.53273	(05010208)	52.73612
(05010208)	56.44736	(05010208)	54.12964	(05020508)	
3813170.5	29.36498	(05010208)	63.62590	(05010208)	76.30833
(05010208)	68.25101	(05020508)	59.49863	(05010124)	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 349295.28	349370.28	349445.28	349520.28	349595.28
3816095.5	8.55264 (05111716)	12.40235 (05111716)	10.26613 (05111716)	9.60081 (05041616)	10.44278 (05042116)
3816020.5	11.98471 (05111716)	13.04386 (05111716)	11.34162 (05111716)	10.97340 (05091108)	10.76721 (05042116)
3815945.5	11.52840 (05111716)	13.49047 (05111716)	12.45201 (05111716)	13.54280 (05091108)	17.44924 (05110924)
3815870.5	10.87293 (05111716)	13.67192 (05111716)	13.80696 (05091108)	14.45571 (05091108)	19.16565 (05110924)
3815795.5	10.93924 (05122608)	13.48461 (05111716)	14.46026 (05111716)	20.10266 (05091108)	20.33302 (05110924)
3815720.5	13.94679 (05122608)	13.10418 (05111716)	15.11560 (05111716)	18.55717 (05091108)	14.45133 (05091108)
3815645.5	16.22754 (05122608)	12.34411 (05111716)	15.39397 (05111716)	15.80921 (05091108)	13.36531 (05091108)
3815570.5	16.00397 (05122608)	11.67987 (05122608)	15.25438 (05111716)	16.11265 (05111716)	14.21314 (05091108)
3815495.5	18.28568 (05122608)	15.08603 (05122608)	11.31179 (05111716)	16.98872 (05111716)	14.83769 (05111716)
3815420.5	21.14924 (05122608)	18.42448 (05122608)	13.99719 (05111716)	17.38345 (05111716)	16.21452 (05111716)
3815345.5	19.29641 (05122608)	17.28825 (05122608)	13.29187 (05122608)	13.59066 (05111716)	14.20118 (05111716)
3815270.5	18.51616 (05122608)	19.10022 (05122608)	19.23939 (05122608)	14.16506 (05111716)	19.35363 (05111716)
3815195.5	16.10596 (05122608)	20.74836 (05122608)	24.59471 (05122608)	18.37448 (05122608)	20.77189 (05111716)
3815120.5	16.65874 (05111216)	22.21962 (05122608)	29.99887 (05122608)	25.11783 (05122608)	22.24166 (05111716)
3815045.5	17.63465 (05110908)	23.46972 (05050708)	35.10267 (05122608)	31.76024 (05122608)	22.87113 (05111716)

3814970.5	23.89157	(05022208)	28.15953	(05050708)	36.13267
(05122608)	31.68184	(05122608)	25.82140	(05122608)	
3814895.5	34.21605	(05051624)	46.37344	(05060924)	29.24776
(05050708)	35.88312	(05122608)	36.35881	(05122608)	
3814820.5	54.03702	(05051624)	56.72883	(05030224)	36.02780
(05060924)	33.93324	(05122608)	44.76290	(05122608)	
3814745.5	99.00718	(05092624)	73.70032	(05030224)	31.43683
(05022208)	27.75369	(05122608)	44.62213	(05122608)	
3814670.5	219.26098	(05070708)	93.21666	(05092624)	51.68463
(05010424)	44.74025	(05022208)	65.12779	(05122608)	
3814595.5	326.21176	(05070708)	223.58761	(05070708)	101.38912
(05022008)	77.83919	(05030224)	130.40026	(05082008)	
3814520.5	407.86199	(05111424)	361.36026	(05111424)	126.75672
(05022008)	97.82908	(05022008)	270.67706	(05042408)	
3814445.5	403.55287	(05121324)	184.71854	(05111424)	139.43743
(05022008)	148.48050	(05022008)	574.46029	(05042408)	
3814370.5	175.78640	(05091908)	217.71334	(05091908)	232.54009
(05121324)	384.20693	(05111424)	590.81019	(05063008)	
3814295.5	362.51728	(05062208)	441.91899	(05062208)	282.30967
(05091908)	607.93258	(05091908)	637.37073	(05121324)	
3814220.5	192.07992	(05110624)	254.18055	(05110624)	403.16022
(05110624)	445.98018	(05110624)	581.87609	(05110624)	
3814145.5	171.78673	(05122308)	204.92119	(05122308)	268.37119
(05122308)	344.54251	(05122308)	460.96872	(05122308)	
3814070.5	142.86639	(05122308)	169.81123	(05010124)	213.56241
(05010124)	278.58359	(05010124)	380.32361	(05010124)	
3813995.5	132.55338	(05010124)	160.05293	(05010124)	199.97118
(05112224)	254.85719	(05112224)	324.59004	(05010124)	
3813920.5	137.75820	(05112224)	162.30462	(05112224)	191.00438
(05112224)	218.50088	(05112224)	269.51312	(05010124)	
3813845.5	140.35541	(05112224)	150.57872	(05112224)	159.05304
(05112224)	186.59277	(05010124)	221.52280	(05010124)	
3813770.5	123.20439	(05112224)	125.54884	(05112224)	138.91762
(05010124)	159.30734	(05010124)	182.73265	(05010124)	
3813695.5	122.63083	(05010124)	114.08968	(05010124)	121.97404
(05010124)	136.33682	(05010124)	152.25157	(05010124)	
3813620.5	111.82769	(05010124)	126.39155	(05010124)	124.95159
(05010124)	120.00159	(05010124)	129.51301	(05010124)	
3813545.5	112.45731	(05010208)	37.34016	(05010208)	86.98506
(05020508)	121.44803	(05021008)	112.15830	(05010124)	
3813470.5	62.60517	(05010208)	10.36135	(05020124)	33.25727
(05021008)	114.14494	(05010124)	103.69039	(05010124)	
3813395.5	96.78147	(05010208)	94.63688	(05020508)	22.18001
(05062308)	89.41465	(05122324)	108.81400	(05010124)	
3813320.5	76.37278	(05010124)	81.27614	(05010124)	96.72003
(05122324)	88.74434	(05010124)	106.93496	(05122324)	
3813245.5	75.21202	(05021008)	63.83267	(05010124)	77.10768
(05010124)	67.95386	(05010124)	77.58592	(05010124)	
3813170.5	61.91380	(05010124)	60.16667	(05010124)	57.61606
(05010124)	61.36319	(05010124)	57.85179	(05010124)	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 349670.28	349745.28	349820.28	349895.28	349970.28
3816095.5	9.67430 (05042116)	11.15104 (05091008)	9.10490 (05091008)	9.28694 (05061424)	10.60282 (05022516)
3816020.5	10.24855 (05042116)	13.80614 (05091008)	14.04361 (05091008)	14.12800 (05061424)	11.51041 (05061424)
3815945.5	14.84906 (05110924)	16.69396m(05060124)	18.46756 (05091008)	17.14575 (05061424)	19.00445 (05071008)
3815870.5	23.91836 (05110924)	23.07013 (05011024)	23.77555 (05091008)	19.76193 (05061424)	29.01194 (05102308)
3815795.5	26.31397 (05110924)	26.09501 (05011024)	27.68871 (05091008)	28.44583 (05121524)	43.92016 (05121524)
3815720.5	15.40721 (05110924)	28.04878 (05011024)	30.16079 (05091008)	36.02278m(05072508)	36.59945 (05102308)
3815645.5	25.01663 (05110924)	30.18302 (05011024)	27.22051 (05091008)	21.62482 (05061424)	38.49315 (05102308)
3815570.5	22.38452 (05110924)	21.96142m(05060124)	21.32410 (05091008)	21.89328 (05091008)	25.52262 (05071008)
3815495.5	15.26798 (05091108)	13.76374 (05091008)	17.79943 (05091008)	19.31497 (05061424)	15.40427 (05061424)
3815420.5	13.61948 (05042116)	15.17962 (05091008)	16.80610 (05091008)	15.16265 (05061424)	15.32838 (05022516)
3815345.5	11.70581 (05111716)	15.06546 (05042116)	14.80351 (05091008)	15.35004 (05022516)	15.86924 (05030716)
3815270.5	13.71509 (05111716)	12.33881 (05042116)	10.56272 (05091008)	13.19189 (05022516)	12.62282 (05022516)
3815195.5	18.65609 (05111716)	17.31645 (05042116)	15.52114 (05091008)	14.54214 (05022516)	18.53823 (05030716)
3815120.5	18.19253 (05111716)	18.76020 (05042116)	19.19859 (05091008)	18.55962 (05022516)	20.11786 (05030716)
3815045.5	24.78463 (05111716)	20.03731 (05111716)	23.40282 (05091008)	21.22668 (05022516)	21.80747 (05030716)

3814970.5 | 29.13765 (05111716) 24.06897 (05111716) 26.13786
(05091008) 24.57578 (05022516) 23.37797 (05030716)
3814895.5 | 32.85673 (05091108) 29.29414 (05111716) 29.85258
(05091008) 28.27687m(05060124) 23.91133 (05030716)
3814820.5 | 43.93128 (05122608) 37.14071 (05111716)
38.90167m(05060124) 31.54892 (05022516) 24.44975 (05081316)
3814745.5 | 56.90748 (05122608) 47.94309 (05091108) 59.89575
(05011024) 36.60254 (05022516) 32.03824 (05060516)
3814670.5 | 70.40088 (05122608) 73.54980 (05091108) 87.82403
(05011024) 64.77039m(05060124) 44.91796 (05061524)
3814595.5 | 159.18601 (05121808) 120.15288 (05121808) 121.64686
(05011024) 86.60819m(05060124) 60.73969 (05061524)
3814520.5 | 235.48323 (05100824) 296.70832 (05110724) 125.43842
(05011024) 56.68119 (05022516) 61.46909 (05060516)
3814445.5 | 699.14617 (05042408) 476.60843 (05100824) 175.42076
(05121808) 101.91920m(05060124) 88.21345 (05060516)
3814370.5 | 931.03324 (05042408) 283.48709 (05022008) 149.08782
(05111716) 145.38138 (05111716) 164.37930 (05060516)
3814295.5 | 610.60755 (05111424) 204.88139 (05022008) 0.00000
(00000000) 0.00000 (00000000) 0.00000 (00000000)
3814220.5 | 240.64458 (05091908) 0.00000 (00000000) 0.00000
(00000000) 0.00000 (00000000) 0.00000 (00000000)
3814145.5 | 728.49202 (05122308) 0.00000 (00000000) 0.00000
(00000000) 0.00000 (00000000) 0.00000 (00000000)
3814070.5 | 544.54281 (05010124) 1097.47069 (05010124) 0.00000
(00000000) 0.00000 (00000000) 0.00000 (00000000)
3813995.5 | 432.09978 (05010124) 578.06599 (05010124) 733.73294
(05010124) 922.46422 (05010124) 1102.40543 (05122008)
3813920.5 | 334.90329 (05010124) 408.87774 (05010124) 472.62974
(05010124) 495.68013 (05010124) 702.09014 (05122008)
3813845.5 | 261.19453 (05010124) 300.73904 (05010124) 330.85282
(05010124) 340.78700 (05010124) 360.65839 (05013108)
3813770.5 | 207.33533 (05010124) 229.88532 (05010124) 245.81609
(05010124) 250.83223 (05010124) 244.64642 (05013108)
3813695.5 | 167.94395 (05010124) 181.56050 (05010124) 190.74860
(05010124) 193.56641 (05010124) 189.34531 (05010124)
3813620.5 | 138.66459 (05010124) 147.30777 (05010124) 152.95091
(05010124) 154.64249 (05010124) 152.08368 (05010124)
3813545.5 | 116.75362 (05010124) 122.37139 (05010124) 125.84772
(05010124) 126.89104 (05010124) 125.22818 (05010124)
3813470.5 | 100.18453 (05010124) 104.23503 (05010124) 105.87455
(05010124) 106.35170 (05010124) 105.20326 (05010124)
3813395.5 | 113.86427 (05010124) 94.83297 (05010124) 90.74553
(05010124) 90.71855 (05010124) 89.87146 (05010124)
3813320.5 | 66.32050 (05120408) 132.82776 (05011808) 85.28852
(05010124) 79.04416 (05010124) 79.47387 (05011808)
3813245.5 | 81.25985 (05010124) 95.40313 (05120408) 124.66453
(05011808) 85.23648 (05010124) 73.28510 (05011808)
3813170.5 | 59.91155 (05010124) 77.66257 (05010124) 113.10679
(05011808) 116.82071 (05011808) 75.41993 (05011808)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350045.28	350120.28	350195.28	350270.28	350345.28
3816095.5	15.10556 (05071008)	15.06118 (05030716)	20.99103 (05031224)	8.36289 (05030716)	8.20074 (05120216)
3816020.5	14.06749 (05071008)	22.92755 (05060424)	31.68998 (05031224)	31.39777 (05031224)	20.32556 (05020708)
3815945.5	17.82089 (05071008)	34.17829 (05031224)	43.08494 (05031224)	45.50507 (05031224)	66.00301 (05020708)
3815870.5	32.70884 (05071008)	43.49515 (05031224)	62.94310 (05031224)	60.87060 (05031224)	94.86530 (05020708)
3815795.5	61.81373 (05102308)	74.19552 (05031224)	85.65312 (05031224)	73.78099 (05020708)	100.43363 (05020708)
3815720.5	47.97504 (05060424)	90.74495 (05031224)	102.24881 (05031224)	94.95234 (05020708)	103.40810 (05112324)
3815645.5	60.16404 (05060424)	94.66318 (05031224)	101.69386 (05031224)	103.44938 (05020708)	102.40701 (05112324)
3815570.5	49.76389 (05060424)	70.92435 (05031224)	56.06849 (05031224)	114.64502 (05020708)	123.36349 (05112324)
3815495.5	22.15834 (05031224)	42.08936 (05031224)	17.26606 (05031224)	50.42758 (05060224)	81.04555 (05060224)
3815420.5	18.72390 (05030716)	19.48242 (05031224)	12.14819 (05052116)	37.49805 (05060224)	44.93576 (05050524)
3815345.5	18.92981 (05030716)	13.72129 (05060516)	12.73691 (05052116)	16.00179 (05050524)	32.38154 (05050524)
3815270.5	12.69381 (05081316)	11.45062 (05060516)	13.74782 (05010616)	18.97810 (05050524)	25.13474 (05050524)
3815195.5	18.83619 (05030716)	11.90284 (05060516)	13.75179 (05010616)	12.81065 (05050524)	12.89157 (05012616)
3815120.5	18.77114 (05030716)	13.10027 (05060516)	14.37660 (05010616)	11.62928 (05120516)	13.76130 (05012616)
3815045.5	19.11593 (05060516)	15.53304 (05010616)	13.93260 (05010616)	14.54417 (05110416)	20.04451 (05110208)

3814970.5	21.45765	(05060516)	14.62406	(05060516)	13.90537
(05110416)	16.71538	(05110208)	26.74398	(05110208)	
3814895.5	19.18301	(05060516)	14.91843	(05010616)	16.27366
(05110416)	24.31890	(05110208)	31.69384	(05110208)	
3814820.5	23.14102	(05060516)	17.77398	(05010616)	20.75574
(05110208)	31.40522	(05110208)	32.60392	(05110208)	
3814745.5	29.55953	(05060516)	23.51520	(05110416)	29.55641
(05110208)	35.06257	(05110208)	28.38900	(05110208)	
3814670.5	38.78508	(05061524)	35.21512	(05102224)	36.29521
(05110208)	32.88541	(05110208)	36.12324	(05101416)	
3814595.5	47.46857	(05061524)	43.79168	(05102224)	41.23323
(05101416)	41.93219	(05101416)	40.55319	(05101416)	
3814520.5	46.95328	(05102224)	47.43877	(05101416)	53.05500
(05101416)	43.68787	(05101416)	42.85637	(05120308)	
3814445.5	79.63177	(05102224)	67.27366	(05101416)	57.32595
(05101416)	40.32740	(05111416)	53.81219	(05111416)	
3814370.5	115.56929	(05101416)	103.66747	(05101416)	67.19975
(05111416)	77.69000	(05111416)	108.37701	(05111416)	
3814295.5	163.84559	(05101416)	116.83586	(05111416)	90.26290
(05111416)	106.57288	(05111416)	302.60896	(05121824)	
3814220.5	363.16016	(05121824)	175.88904	(05122716)	128.72881
(05122716)	97.97347	(05122716)	312.81868	(05101824)	
3814145.5	895.69462	(05101308)	921.63562	(05021408)	98.45993
(05121316)	149.42822	(05021408)	85.95899	(05031324)	
3814070.5	382.59430	(05020908)	959.37958	(05120108)	154.81520
(05012824)	127.80345	(05122708)	129.43260	(05122708)	
3813995.5	1083.89095	(05011608)	1124.81933	(05111824)	682.01963
(05111824)	790.74357	(05111824)	125.29338	(05122708)	
3813920.5	772.97874	(05011608)	778.43668	(05011608)	1088.08963
(05110108)	167.42815	(05020908)	142.06662	(05020908)	
3813845.5	545.40840	(05122008)	656.62312	(05011608)	904.05939
(05120608)	719.15172	(05110108)	370.56152	(05120708)	
3813770.5	347.45270	(05122008)	543.13915	(05011608)	567.12881
(05011608)	423.02411	(05120608)	362.58869	(05120608)	
3813695.5	298.37533	(05013108)	377.37624	(05122008)	383.52516
(05011608)	379.96022	(05011608)	314.09863	(05120608)	
3813620.5	176.36905	(05013108)	227.77097	(05122008)	287.32626
(05122008)	324.78016	(05011608)	308.66805	(05011608)	
3813545.5	134.80984	(05013108)	163.33998	(05013108)	220.95873
(05122008)	257.64491	(05011608)	267.67623	(05011608)	
3813470.5	104.24306	(05013108)	133.57692	(05013108)	163.34584
(05122008)	206.06236	(05122008)	229.85029	(05011608)	
3813395.5	87.94607	(05011808)	108.80451	(05013108)	122.71768
(05013108)	162.71094	(05122008)	186.64066	(05122008)	
3813320.5	77.39787	(05011808)	88.53920	(05013108)	105.11156
(05013108)	123.81424	(05122008)	156.08483	(05122008)	
3813245.5	71.09250	(05011808)	74.15032	(05013108)	89.37320
(05013108)	95.58230	(05013108)	125.19493	(05122008)	
3813170.5	69.73276	(05011808)	62.42507	(05013108)	76.34205
(05013108)	84.97362	(05013108)	97.71899	(05122008)	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350420.28	350495.28	350570.28	350645.28	350720.28
3816095.5	24.50144 (05020708)	13.97033 (05050524)	16.32648 (05060224)	6.99432 (05072208)	10.31943 (05012624)
3816020.5	27.86400 (05060224)	40.15264 (05060224)	29.70317 (05060224)	20.50076 (05012624)	23.29753 (05050524)
3815945.5	85.98194 (05020708)	65.82435 (05112324)	63.84863 (05112324)	48.63933 (05012624)	67.43331 (05102208)
3815870.5	96.70608 (05112324)	95.63555 (05112324)	75.66892 (05040124)	64.51971 (05102824)	42.18880 (05081424)
3815795.5	96.45136 (05112324)	49.87546 (05010124)	66.25110 (05022624)	43.25196 (05010124)	47.57312 (05081424)
3815720.5	54.30022 (05010124)	53.36385 (05010124)	49.39642 (05010124)	48.74873 (05081424)	52.52321 (05081424)
3815645.5	58.80563 (05010124)	55.51701 (05010124)	48.86243 (05081424)	54.35987 (05081424)	55.61224 (05081424)
3815570.5	106.43681 (05112324)	58.79842 (05010124)	56.45298 (05081424)	61.42108 (05081424)	59.53136 (05081424)
3815495.5	35.24740 (05050524)	84.23578 (05022624)	93.75738 (05120724)	67.81827 (05081424)	63.18150 (05081424)
3815420.5	66.97013 (05050524)	102.32797 (05102208)	123.36043 (05120724)	72.31102 (05081424)	64.28948 (05081424)
3815345.5	43.19269 (05050524)	55.10926 (05081424)	89.19642 (05120724)	150.65149 (05120724)	68.78500 (05110208)
3815270.5	18.76314 (05102224)	19.15182 (05110208)	25.30566 (05081424)	80.30407 (05120724)	21.54370 (05110208)
3815195.5	16.61587 (05110208)	24.35065 (05110208)	27.36111 (05110208)	24.08328 (05110208)	21.87342 (05102224)
3815120.5	22.63764 (05110208)	28.09630 (05110208)	26.62841 (05110208)	19.77057 (05110208)	18.26166 (05101416)
3815045.5	27.96302 (05110208)	28.94128 (05110208)	22.84355 (05110208)	19.35599 (05101416)	18.42721 (05101416)

3814970.5	30.74566	(05110208)	26.13953	(05110208)	21.79066	(05101416)
20.63735	(05101416)	17.42854	(05101416)			
3814895.5	29.48645	(05110208)	25.20374	(05101416)	23.67495	(05101416)
29.65491	(05120308)	31.46955	(05120308)			
3814820.5	28.25333	(05101416)	27.56832	(05101416)	44.44244	(05120308)
68.47073	(05120308)	119.93494	(05120308)			
3814745.5	29.04107	(05101416)	26.61829	(05101416)	21.69822	(05112216)
25.61904	(05120308)	25.12969	(05120308)			
3814670.5	32.70071	(05101416)	24.68727	(05101416)	24.41570	(05103116)
47.45489	(05120308)	66.49508	(05120308)			
3814595.5	45.87228	(05120308)	65.04547	(05120308)	30.81673	(05111416)
63.56932	(05111416)	290.19885	(05102808)			
3814520.5	110.17995	(05120308)	191.80182	(05102808)	233.17187	(05102808)
122.15196	(05102808)	149.77064	(05110208)			
3814445.5	60.55732	(05111416)	93.23767	(05111416)	346.45952	(05110208)
195.37094	(05110208)	172.30065	(05110208)			
3814370.5	93.78577	(05111416)	49.39953	(05111416)	62.30748	(05111716)
366.80678	(05110208)	236.77844	(05121824)			
3814295.5	671.94824	(05110208)	486.61145	(05110208)	266.34732	(05121824)
316.23584	(05121824)	268.52072	(05121824)			
3814220.5	324.36623	(05121308)	263.53222	(05121308)	224.07786	(05121308)
196.15469	(05121308)	85.11210	(05101824)			
3814145.5	736.08375	(05121308)	294.34836	(05121308)	225.95558	(05121308)
236.19057	(05121308)	194.71208	(05121308)			
3814070.5	360.22780	(05121308)	276.87169	(05121308)	221.15828	(05021408)
201.60282	(05021408)	184.28920	(05021408)			
3813995.5	329.40061	(05121608)	240.06157	(05121608)	207.95864	(05121608)
170.63867	(05021408)	153.66158	(05021408)			
3813920.5	341.56173	(05120108)	283.72935	(05120108)	189.79069	(05101308)
165.99298	(05101308)	140.33771	(05121608)			
3813845.5	494.30661	(05111824)	658.37077	(05111824)	237.69434	(05120108)
206.85968	(05011308)	149.20076	(05011308)			
3813770.5	279.74362	(05120708)	263.01232	(05111824)	243.22379	(05111824)
549.81673	(05111824)	433.28421	(05010608)			
3813695.5	238.68450	(05120608)	208.36665	(05120708)	228.08184	(05120708)
208.09160	(05111824)	173.21265	(05111824)			
3813620.5	233.91794	(05120608)	202.18402	(05120608)	176.20029	(05110108)
181.93384	(05120708)	146.43725	(05020908)			
3813545.5	232.99377	(05011608)	209.51025	(05120608)	167.72801	(05120608)
174.85452	(05110108)	134.04660	(05120708)			
3813470.5	226.78194	(05011608)	190.51118	(05011608)	184.05727	(05120608)
159.43413	(05120608)	124.69651	(05110108)			
3813395.5	203.67740	(05011608)	191.75967	(05011608)	162.48684	(05011608)
165.95311	(05120608)	155.32626	(05120608)			
3813320.5	172.08139	(05011608)	179.82390	(05011608)	165.06945	(05011608)
150.11552	(05011608)	128.09834	(05120608)			
3813245.5	146.17222	(05122008)	158.27773	(05011608)	158.20877	(05011608)
141.80594	(05011608)	133.55557	(05122108)			
3813170.5	122.82038	(05122008)	134.30096	(05122008)	144.02485	(05011608)
139.35023	(05011608)	127.44652	(05011608)			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

Y-COORD (METERS)	X-COORD (METERS) 350795.28	350870.28	350945.28	351020.28	351095.28
3816095.5	62.53453 (05102824)	32.24588 (05102208)	19.27943 (05111024)	22.38415 (05111024)	70.52534 (05120724)
3816020.5	44.57995 (05102208)	66.47404 (05102208)	34.87915 (05111024)	87.57573 (05120724)	80.83163 (05120724)
3815945.5	69.82817 (05102208)	43.69897 (05081424)	82.70802 (05120724)	86.75722 (05120724)	36.33614 (05081424)
3815870.5	70.45680 (05120724)	46.93156 (05081424)	97.71887 (05120724)	40.19866 (05081424)	34.34222 (05081424)
3815795.5	49.86873 (05081424)	49.38301 (05081424)	44.94102 (05081424)	42.09450 (05110208)	32.07298 (05110208)
3815720.5	52.91947 (05081424)	49.97919 (05081424)	44.23550 (05081424)	35.80726 (05120724)	35.63750m(05121624)
3815645.5	53.41524 (05081424)	48.42842 (05081424)	41.00343 (05081424)	37.26716m(05121624)	36.46553m(05121624)
3815570.5	53.42848 (05081424)	45.19437 (05081424)	39.55857m(05121624)	40.87190m(05121624)	40.18910m(05121624)
3815495.5	53.72478 (05081424)	42.89693 (05120724)	42.41664m(05121624)	41.26107m(05121624)	38.60509m(05121624)
3815420.5	52.53811 (05120724)	48.16249m(05121624)	45.39674m(05121624)	41.93827m(05121624)	39.74461 (05102724)
3815345.5	55.46846m(05121624)	53.36767m(05121624)	49.96380m(05121624)	45.52777 (05102724)	42.29531 (05102724)
3815270.5	141.65509 (05051224)	60.54286m(05121624)	57.99141 (05102724)	50.78362 (05102724)	43.78600 (05102724)
3815195.5	93.23326 (05051224)	120.32912 (05051224)	114.88892 (05092508)	57.08218 (05102724)	48.54556 (05102724)
3815120.5	28.94251 (05102724)	37.17658 (05102724)	34.65733 (05120308)	44.72095 (05062608)	93.44305 (05051008)
3815045.5	19.41222 (05120308)	28.09532 (05120308)	41.44228 (05120308)	123.31040 (05062008)	110.33444 (05090208)

3814970.5	33.30169	(05120308)	31.35692	(05120308)	25.12599
(05120308)	37.03849	(05120224)	104.64775	(05082708)	
3814895.5	54.64807	(05120308)	98.61575	(05120308)	44.69532
(05120308)	75.54513	(05120308)	133.48870	(05082708)	
3814820.5	144.27924	(05101108)	182.10997	(05082708)	129.66614
(05082708)	93.79839	(05102808)	179.88960	(05102808)	
3814745.5	123.84698	(05082708)	206.33853	(05082708)	81.97925
(05102808)	210.27697	(05102808)	153.58791	(05102808)	
3814670.5	57.20813	(05111416)	243.29991	(05102808)	226.84505
(05102808)	85.33128	(05110208)	76.77179	(05110208)	
3814595.5	258.84782	(05102808)	111.01878	(05110208)	198.16986
(05110208)	215.36972	(05110208)	95.01788	(05110208)	
3814520.5	127.02765	(05110208)	112.94780	(05110208)	106.19487
(05110208)	108.88315	(05110208)	109.79446	(05110208)	
3814445.5	358.15220	(05110208)	148.42796	(05110208)	120.96223
(05110208)	98.08320	(05110208)	105.02888	(05110208)	
3814370.5	163.68912	(05110208)	132.04268	(05110208)	118.14905
(05110208)	91.55976	(05110208)	87.39842	(05121824)	
3814295.5	151.08334	(05121824)	118.39670	(05121824)	92.85661
(05121824)	81.82463	(05121824)	76.84225	(05121824)	
3814220.5	146.13562	(05101824)	118.99719	(05121308)	103.58171
(05121308)	81.72244	(05121308)	73.19899	(05121308)	
3814145.5	325.62880	(05120624)	286.34061	(05121308)	117.91392
(05121308)	115.29461	(05121308)	86.54438	(05121308)	
3814070.5	164.72570	(05021408)	164.19545	(05021408)	149.59781
(05021408)	127.14238	(05121308)	93.96800	(05121308)	
3813995.5	148.66182	(05021408)	129.99488	(05021408)	119.56925
(05021408)	118.42547	(05021408)	105.51193	(05021408)	
3813920.5	125.44174	(05121608)	112.60645	(05121608)	102.24657
(05021408)	97.34235	(05021408)	92.38062	(05021408)	
3813845.5	126.91593	(05101308)	107.71520	(05101308)	97.23927
(05121608)	89.59489	(05121608)	82.56623	(05121608)	
3813770.5	134.32859	(05011308)	121.14215	(05011308)	104.14783
(05101308)	87.15724	(05101308)	77.99587	(05101308)	
3813695.5	126.45261	(05111824)	106.07711	(05010608)	96.78238
(05010608)	86.81948	(05011308)	78.06571	(05011308)	
3813620.5	125.83806	(05111824)	113.50774	(05111824)	99.14971
(05111824)	85.83044	(05010608)	79.59912	(05010608)	
3813545.5	115.93542	(05020908)	109.40113	(05111824)	102.29274
(05111824)	92.42806	(05111824)	81.20640	(05111824)	
3813470.5	112.22904	(05110108)	101.42805	(05120708)	94.96588
(05020908)	91.37578	(05111824)	85.03457	(05111824)	
3813395.5	101.99935	(05110108)	97.97524	(05110108)	90.26810
(05110108)	85.09719	(05020908)	81.14349	(05111824)	
3813320.5	107.44300	(05120608)	87.98424	(05110108)	87.64128
(05110108)	82.45375	(05110108)	76.09474	(05020908)	
3813245.5	107.30602	(05120608)	92.51196	(05120608)	77.87343
(05110108)	78.72637	(05110108)	75.44966	(05110108)	
3813170.5	104.78353	(05122108)	94.15492	(05120608)	82.75858
(05120608)	69.99060	(05120608)	71.04606	(05110108)	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 8-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** 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)
350508.88	3814829.88	30.20654	(05102224)	350283.70	3815266.49	19.63378	(05050524)
350539.82	3814604.70	33.40211	(05120308)	350467.63	3814245.45	299.11964	(05110208)
350008.68	3813941.20	843.07404	(05011608)	350147.91	3813936.04	687.56212	(05120608)
350557.01	3814453.44	341.59719	(05102808)	349200.78	3815251.02	15.03867	(05111216)
349173.28	3815257.89	14.32203	(05111216)	348862.58	3814174.11	92.70464	(05122308)
348862.58	3815183.55	28.59101	(05010424)	350494.71	3815179.68	25.27042	(05110208)
350486.97	3814363.62	48.84326	(05111416)	350216.24	3814363.62	74.06598	(05111416)
350216.24	3814193.45	110.76228	(05122716)	349991.92	3813969.12	1094.92060	(05011608)
349794.67	3813961.39	562.60606	(05010124)	349597.42	3814065.81	380.43537	(05010124)
349121.71	3814085.15	114.27061	(05122308)				

**MODELOPTs: RegDFAULT CONC   ELEV

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

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

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

ALL       1ST HIGHEST VALUE IS     189.03943 AT (  350120.28,  3814070.46,
390.30,   520.00,    0.00)  GC  UCART1
          2ND HIGHEST VALUE IS     185.03203 AT (  349670.28,  3814370.46,
390.90,   524.00,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS     166.56186 AT (  349745.28,  3814070.46,
386.70,   524.00,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS     158.19225 AT (  349895.28,  3813995.46,
389.80,   520.00,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS     151.75159 AT (  350045.28,  3813995.46,
379.10,   524.00,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS     151.67997 AT (  349670.28,  3814145.46,
390.60,   524.00,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS     144.31793 AT (  349595.28,  3814295.46,
383.90,   524.00,    0.00)  GC  UCART1
          8TH HIGHEST VALUE IS     140.83505 AT (  349595.28,  3814370.46,
386.90,   524.00,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS     138.94132 AT (  349991.92,  3813969.12,
381.07,   520.00,    0.00)  DC
         10TH HIGHEST VALUE IS     137.16859 AT (  350120.28,  3814145.46,
397.10,   520.00,    0.00)  GC  UCART1

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

**MODELOPTs: RegDFAULT CONC ELEV

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

** CONC OF CO 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 1722.35272 ON 05040303: AT (349670.28, 3814370.46, 390.90, 524.00, 0.00) GC		UCART1
	HIGH 8TH HIGH VALUE IS 1699.35103 ON 05092101: AT (349670.28, 3814370.46, 390.90, 524.00, 0.00) GC		UCART1

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

*** 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 1124.81933	ON 05111824:	AT (350120.28, 3813995.46, 395.60, 520.00, 0.00)	GC	UCART1

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

*** 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 204 Informational Message(s)

A Total of 8760 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 204 Missing Hours Identified (2.33 Percent)

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

******** WARNING MESSAGES ********
SO W320 43 VPARM:Input Parameter May Be Out-of-Range for Parameter QS
SO W320 44 VPARM:Input Parameter May Be Out-of-Range for Parameter QS

****
*** AERMOD Finishes Successfully ***
****

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.2.0
** Lakes Environmental Software Inc.
** Date: 6/5/2014
** File: C:\AERMOD\LosValles\LosVallesNOx\LosVallesNOx.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\AERMOD\LosValles\LosVallesNOx\LosVallesNOx.isc
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID NO2
   RUNORNOT RUN
   ERRORFIL LosVallesNOx.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     349887.570  3814179.790      385.830
** DESCRSRC Grading
   LOCATION VOL2         VOLUME     349370.560  3814249.570      383.120
** DESCRSRC Paving
   LOCATION VOL3         VOLUME     349694.090  3814627.020      410.120
** DESCRSRC Trenching
** Source Parameters **
   SRCPARAM VOL1              5.06     3.000    73.026     1.000
   SRCPARAM VOL2               0.0     3.000    67.126     1.000
   SRCPARAM VOL3               0.0     3.000    68.600     1.000
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED LosVallesNOx.rou
RE FINISHED
**
****************************************
```

```
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE met\burk6.sfc
   PROFFILE met\burk6.PFL
   SURFDATA 0 2005
   UAIRDATA 3190 2005
   SITEDATA 99999 2005
   PROFBASE 175.0 METERS
   STARTEND 2005 1 1 1 2005 12 31 24
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST 8TH
   RECTABLE 1 1ST 8TH
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST LOSVALLESNOX.AD\01H1GALL.PLT 31
   PLOTFILE 1 ALL 8TH LOSVALLESNOX.AD\01H8GALL.PLT 32
   PLOTFILE PERIOD ALL LOSVALLESNOX.AD\PE00GALL.PLT 33
   MXDYBYYR ALL LOSVALLESNOX.AD\MXDYBYYR_ALL_NO2.DAT 34
   MAXDAILY ALL LOSVALLESNOX.AD\MAXDAILY_ALL_NO2.DAT 35
   SUMMFILE LosVallesNOx.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 W361      25 COCARD:Multiyear PERIOD/ANNUAL values for NO2/SO2 require
MULTYEAR Opt
 SO W320      43  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS
 SO W320      44  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS

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

**MODELOPTs: RegDFAULT CONC   ELEV

*** 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 RURAL Dispersion Only.

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Full Conversion Assumed for NO2.

**Model Assumes No FLAGPOLE Receptor Heights.

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

**This Run Includes: 3 Source(s);   1 Source Group(s); and   1619 Receptor(s)

**The Model Assumes A Pollutant Type of: NO2

**Note that special processing requirements apply for the 1-hour NO2 NAAQS - check available guidance.
Model will process user-specified ranks of daily maximum 1-hour values averaged across the number of years modeled.
For annual NO2 NAAQS modeling, the multi-year maximum of PERIOD values can be simulated using the MULTYEAR keyword.
Multi-year PERIOD and 1-hour values should only be done in a single model run using the MULTYEAR option with a
single multi-year meteorological data file using STARTEND keyword.

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

**Output Options Selected:
Model Outputs Tables of PERIOD 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 External File(s) of Maximum Daily 1-hr Values by Day
(MAXDAILY Keyword)
          Model Outputs External File(s) of Maximum Daily 1-hr Values by Year
(MXDYBYYR 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) =   175.00 ;  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 =      3.9 MB of RAM.

 **Detailed Error/Message File:   LosVallesNOx.err
 **File for Summary of Results:   LosVallesNOx.sum
```

**MODELOPTs: RegDFAULT CONC ELEV

*** 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	EMISSION RATE SCALAR VARY BY
VOL1	0	0.50600E+01	349887.6	3814179.8	385.8	3.00	73.03	1.00	NO	
VOL2	0	0.00000E+00	349370.6	3814249.6	383.1	3.00	67.13	1.00	NO	
VOL3	0	0.00000E+00	349694.1	3814627.0	410.1	3.00	68.60	1.00	NO	

**MODELOPTs: RegDFAULT CONC ELEV

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 ,

**MODELOPTs: RegDFAULT CONC ELEV

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

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

348170.3, 348245.3, 348320.3, 348395.3, 348470.3, 348545.3, 348620.3, 348695.3, 348770.3, 348845.3,
348920.3, 348995.3, 349070.3, 349145.3, 349220.3, 349295.3, 349370.3, 349445.3, 349520.3, 349595.3,
349670.3, 349745.3, 349820.3, 349895.3, 349970.3, 350045.3, 350120.3, 350195.3, 350270.3, 350345.3,
350420.3, 350495.3, 350570.3, 350645.3, 350720.3, 350795.3, 350870.3, 350945.3, 351020.3, 351095.3,

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

3813170.5, 3813245.5, 3813320.5, 3813395.5, 3813470.5, 3813545.5, 3813620.5, 3813695.5, 3813770.5, 3813845.5,
3813920.5, 3813995.5, 3814070.5, 3814145.5, 3814220.5, 3814295.5, 3814370.5, 3814445.5, 3814520.5, 3814595.5,
3814670.5, 3814745.5, 3814820.5, 3814895.5, 3814970.5, 3815045.5, 3815120.5, 3815195.5, 3815270.5, 3815345.5,
3815420.5, 3815495.5, 3815570.5, 3815645.5, 3815720.5, 3815795.5, 3815870.5, 3815945.5, 3816020.5, 3816095.5,

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	473.20	460.50	461.30	472.50	488.90	483.80	480.90	493.00	487.20
3816020.46	460.70	456.40	459.60	478.20	482.60	482.70	467.70	489.70	476.70
3815945.46	454.90	454.30	459.70	477.60	470.30	479.70	461.70	479.50	468.40
3815870.46	449.30	450.00	453.30	457.60	461.50	465.80	456.80	463.90	462.60
3815795.46	447.90	447.20	448.00	449.80	457.90	450.10	450.20	455.10	456.00
3815720.46	443.50	444.90	447.90	458.90	460.90	443.30	447.00	450.10	451.30
3815645.46	442.20	441.40	445.00	456.70	455.70	440.90	443.30	443.50	450.60
3815570.46	445.80	438.00	441.50	456.50	452.20	433.40	440.10	453.20	465.70
3815495.46	446.40	435.80	441.00	460.90	439.60	434.90	446.40	464.00	477.90
3815420.46	435.50	433.00	442.70	460.10	432.60	434.20	451.80	466.20	455.00
3815345.46	432.00	429.60	442.10	452.30	427.20	434.10	443.40	441.70	451.60
3815270.46	427.20	427.30	440.90	440.80	422.60	429.70	441.30	457.80	474.20
3815195.46	423.40	424.00	432.50	438.90	420.10	421.20	430.50	450.20	468.80
3815120.46	420.10	422.00	428.30	438.40	427.20	414.40	422.50	434.00	451.60
3815045.46	416.90	418.60	421.80	429.50	427.60	410.70	414.40	420.70	436.20
3814970.46	415.70	419.80	426.90	432.40	434.80	412.80	408.60	418.90	431.60
3814895.46	431.90	435.20	444.00	438.40	431.30	418.80	403.60	406.20	415.50
3814820.46	429.20	425.60	436.80	427.20	423.30	421.60	402.20	402.70	414.50

3814745.46	415.60	411.60	420.40	414.20	414.30	417.00	403.20	400.80	402.20
3814670.46	402.20	402.60	407.60	410.40	403.70	402.40	397.10	395.30	398.10
3814595.46	399.20	396.10	393.90	395.80	399.80	393.00	392.60	393.00	398.60
3814520.46	397.70	395.20	392.10	391.10	390.40	388.10	388.20	388.30	403.30
3814445.46	396.40	394.20	392.00	391.00	389.20	387.10	385.90	385.60	391.40
3814370.46	404.00	397.00	394.70	392.30	388.60	387.90	386.20	384.00	383.20
3814295.46	422.40	410.90	401.90	394.90	394.00	391.70	387.00	384.50	382.90
3814220.46	430.30	413.50	404.10	406.70	403.00	400.10	390.40	386.10	382.60
3814145.46	419.10	413.30	419.50	427.40	420.90	402.90	393.80	386.50	384.20
3814070.46	418.60	432.90	452.10	446.80	424.20	403.10	395.20	396.40	386.50
3813995.46	437.90	454.80	469.40	447.60	431.20	411.40	408.70	404.50	393.10
3813920.46	421.60	429.20	436.50	467.70	439.20	419.80	423.60	415.40	402.00
3813845.46	406.90	412.90	432.60	456.50	447.60	446.90	436.80	428.00	413.20
3813770.46	402.70	404.70	413.90	434.30	429.90	433.20	429.60	425.20	409.90
3813695.46	396.10	402.30	416.70	423.90	417.90	415.80	409.20	406.40	392.80
3813620.46	393.70	396.60	409.10	420.60	411.40	403.50	398.80	394.50	395.90
3813545.46	394.30	408.10	423.50	425.00	409.80	403.70	407.10	397.80	401.70
3813470.46	404.30	421.70	412.10	412.50	415.10	420.70	419.90	403.60	408.30
3813395.46	398.10	404.00	397.20	400.40	403.90	419.00	422.90	411.50	420.80
3813320.46	386.70	390.40	393.30	395.10	403.90	407.80	424.70	429.30	427.30
3813245.46	391.80	393.50	399.40	406.80	423.60	427.90	435.80	447.70	442.10
3813170.46	400.50	405.00	415.00	425.60	429.50	423.60	442.20	446.30	429.20

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	487.70	509.30	487.20	504.50	495.50	509.20	498.40	475.30	487.10
3816020.46	487.40	501.20	479.60	494.80	483.50	496.40	476.20	467.40	483.20
3815945.46	474.90	478.50	470.60	490.40	471.80	494.00	475.10	459.60	473.90
3815870.46	465.10	467.50	468.80	469.10	464.00	471.50	470.20	455.20	449.70
3815795.46	458.40	464.00	458.80	458.10	458.00	461.60	463.80	462.60	449.70
3815720.46	456.70	457.50	449.80	452.30	454.10	455.60	458.30	456.70	447.00
3815645.46	456.00	461.00	450.70	447.60	450.10	452.20	459.00	462.70	457.70
3815570.46	465.80	464.80	452.30	442.90	447.60	458.10	477.00	483.20	475.50
3815495.46	479.80	467.10	459.70	440.30	449.90	464.30	473.40	475.70	499.20
3815420.46	475.80	467.70	448.20	435.70	443.10	450.00	461.70	471.00	485.90
3815345.46	469.90	462.00	441.20	436.80	457.20	476.30	475.40	503.50	504.10
3815270.46	457.90	453.10	439.50	430.90	453.90	458.70	472.00	500.70	479.80
3815195.46	446.30	441.80	424.60	435.80	443.50	457.00	471.90	487.10	464.70
3815120.46	435.20	429.10	423.50	431.20	442.10	460.80	474.00	463.90	450.50
3815045.46	430.40	420.90	423.40	444.90	443.70	448.80	454.70	447.10	438.80
3814970.46	433.00	412.60	414.50	422.10	435.40	457.90	442.40	432.40	433.10
3814895.46	422.50	410.20	417.90	430.00	441.50	444.90	432.60	421.40	441.10
3814820.46	408.20	403.40	411.60	421.90	418.40	423.30	424.20	417.80	428.30

3814745.46	|	401.70	402.80	419.90	412.50	415.60	416.60	412.60	417.10	449.50
3814670.46	|	397.40	402.40	410.70	406.70	402.70	406.10	404.40	413.90	432.00
3814595.46	|	398.90	415.30	408.70	395.70	394.00	399.40	398.30	405.20	415.20
3814520.46	|	412.60	409.40	404.40	393.80	387.40	395.60	394.30	397.90	416.00
3814445.46	|	394.70	392.90	396.10	396.30	385.10	387.30	394.30	407.00	414.30
3814370.46	|	383.60	380.70	378.60	381.30	381.90	389.20	404.80	402.90	404.10
3814295.46	|	381.10	378.90	378.00	377.60	379.10	379.10	391.60	391.90	401.40
3814220.46	|	380.20	378.60	377.00	376.10	375.10	373.80	374.50	380.40	391.20
3814145.46	|	381.10	378.60	376.10	374.60	372.70	371.40	369.70	370.00	375.10
3814070.46	|	380.20	379.00	378.00	374.60	372.10	369.70	368.20	367.00	366.80
3813995.46	|	386.60	387.20	382.20	374.00	371.10	369.00	367.70	366.60	365.10
3813920.46	|	389.50	380.00	378.20	375.80	372.90	371.40	369.20	365.70	365.00
3813845.46	|	388.30	383.50	383.00	389.80	393.00	387.70	372.90	369.00	366.00
3813770.46	|	385.80	407.60	409.30	403.60	403.70	386.20	373.70	372.50	369.10
3813695.46	|	398.00	409.10	437.20	423.30	404.70	386.20	384.50	377.60	370.40
3813620.46	|	396.40	411.00	425.80	430.70	420.10	409.40	384.80	386.50	381.40
3813545.46	|	405.70	402.90	411.80	420.20	404.90	394.00	396.60	409.90	400.30
3813470.46	|	418.00	411.90	409.90	419.10	413.60	401.50	404.90	426.70	408.00
3813395.46	|	427.80	431.90	414.90	415.60	404.40	409.50	393.90	397.50	410.90
3813320.46	|	440.90	429.00	421.20	416.20	396.90	391.90	386.50	385.60	395.40
3813245.46	|	423.40	413.80	403.20	406.40	403.80	404.00	391.50	378.70	387.90
3813170.46	|	419.60	410.80	402.60	394.00	397.40	388.90	383.70	380.00	376.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	480.80	484.10	464.80	456.50	458.10	459.40	457.40	435.00	446.90
3816020.46	460.80	461.90	462.90	447.80	442.20	436.30	449.80	436.40	427.80
3815945.46	453.30	443.60	447.80	441.40	434.50	428.90	427.00	432.00	420.70
3815870.46	452.10	440.50	435.80	431.60	427.50	423.70	419.50	420.20	417.50
3815795.46	441.20	438.00	434.20	429.20	423.80	418.20	414.50	410.40	408.40
3815720.46	444.60	452.50	448.30	428.30	422.40	415.80	417.00	414.50	405.20
3815645.46	450.30	459.60	436.90	427.30	427.10	424.80	416.60	411.50	406.10
3815570.46	456.60	459.20	439.60	438.60	436.00	426.00	424.90	415.00	413.00
3815495.46	470.00	468.20	450.50	466.60	443.80	432.40	442.00	433.70	424.00
3815420.46	485.80	486.80	482.20	458.10	449.10	449.60	458.50	440.80	438.50
3815345.46	518.10	506.80	505.40	477.20	472.70	477.40	486.10	458.50	464.40
3815270.46	498.00	488.80	497.60	493.90	510.40	497.60	496.10	492.80	497.50
3815195.46	468.40	483.80	486.10	471.20	483.30	491.50	472.30	479.60	510.80
3815120.46	456.50	471.50	494.50	461.60	467.40	484.90	463.10	478.30	499.50
3815045.46	449.10	467.80	470.10	468.20	449.80	467.10	455.00	476.30	490.00
3814970.46	464.40	468.80	447.60	465.40	446.30	449.20	454.00	467.40	499.10
3814895.46	450.50	449.70	436.50	458.90	441.30	437.30	466.60	504.50	513.10
3814820.46	451.10	442.20	428.20	441.00	432.60	441.40	475.50	488.70	481.30

3814745.46	|	461.30	449.00	426.80	431.60	423.20	437.30	452.70	457.70	455.40
3814670.46	|	430.40	420.40	424.30	419.60	415.60	423.00	430.00	437.40	442.80
3814595.46	|	419.60	407.70	406.00	410.10	410.10	418.70	425.50	431.40	441.80
3814520.46	|	420.90	401.90	402.40	400.80	411.80	440.00	442.30	451.30	450.00
3814445.46	|	415.90	396.50	393.00	397.70	407.60	418.40	432.50	426.30	452.40
3814370.46	|	400.50	386.90	390.90	404.40	426.50	415.70	412.00	426.90	421.60
3814295.46	|	391.10	383.90	397.40	417.30	408.00	391.70	412.90	414.40	426.10
3814220.46	|	386.90	381.00	404.40	418.40	405.40	386.80	411.50	400.20	419.60
3814145.46	|	376.60	378.10	390.60	400.90	386.20	392.30	414.80	396.00	397.10
3814070.46	|	369.60	373.60	372.40	386.70	376.60	381.90	402.40	401.40	390.30
3813995.46	|	365.10	364.70	365.20	365.80	367.70	389.80	394.70	379.10	395.60
3813920.46	|	364.00	363.10	362.10	360.40	362.10	369.60	378.60	370.90	380.20
3813845.46	|	363.60	360.80	359.60	358.10	357.00	362.20	363.50	371.50	375.60
3813770.46	|	363.60	360.10	357.70	356.20	355.10	357.00	359.00	363.00	379.20
3813695.46	|	364.10	361.10	357.60	355.10	354.00	354.60	355.30	382.30	375.00
3813620.46	|	374.60	370.30	357.70	355.10	352.70	351.10	352.70	354.70	353.50
3813545.46	|	393.50	374.30	362.40	359.70	353.70	349.70	349.50	348.60	348.60
3813470.46	|	389.40	378.60	368.10	368.20	358.90	350.10	347.60	346.10	346.10
3813395.46	|	400.00	386.40	386.00	377.00	363.40	352.50	349.20	347.40	344.60
3813320.46	|	389.80	391.60	403.30	393.10	377.50	364.10	360.30	349.80	343.00
3813245.46	|	377.40	381.30	381.90	400.40	396.20	382.20	366.00	359.00	352.60
3813170.46	|	377.30	368.10	370.20	384.20	392.00	396.90	381.90	369.20	356.30

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	435.70	453.50	453.60	426.90	443.30	434.90	459.60	441.80	402.90
3816020.46	426.70	424.60	426.40	425.80	419.00	418.80	428.70	420.40	413.40
3815945.46	420.70	416.40	409.40	404.10	409.00	405.20	409.50	397.50	404.20
3815870.46	413.70	409.80	400.50	395.40	400.90	398.10	404.00	388.00	396.50
3815795.46	407.40	404.50	401.00	393.70	390.50	391.60	389.00	384.70	381.70
3815720.46	401.50	399.80	396.60	390.40	386.20	385.20	390.40	380.00	377.70
3815645.46	402.30	395.70	393.10	388.20	383.90	378.70	376.80	371.70	369.30
3815570.46	414.50	400.30	395.90	395.90	386.30	378.40	380.40	372.20	366.50
3815495.46	435.70	417.20	407.90	420.20	402.90	392.00	385.20	376.80	370.50
3815420.46	451.10	424.10	417.60	407.90	400.10	394.20	386.10	380.40	374.20
3815345.46	471.30	449.50	425.00	414.10	411.90	406.70	393.00	389.80	377.40
3815270.46	461.80	443.30	429.10	432.70	446.80	425.50	408.30	424.60	401.40
3815195.46	490.70	464.90	452.50	458.40	482.80	464.90	450.30	425.10	407.00
3815120.46	476.70	481.40	478.70	468.50	462.70	478.20	464.90	442.60	423.40
3815045.46	481.70	459.00	459.80	468.90	446.30	477.00	471.20	441.60	437.20
3814970.46	472.20	474.20	444.10	459.20	434.40	458.50	442.60	449.50	423.20
3814895.46	481.00	458.50	456.60	435.20	429.70	434.30	427.50	425.90	414.20
3814820.46	474.20	455.80	441.90	438.40	426.80	419.40	412.00	403.50	399.40

3814745.46	471.60	468.30	476.20	469.10	450.30	443.40	432.20	433.10	405.60
3814670.46	445.90	466.20	455.80	441.40	445.40	449.10	423.70	415.40	418.60
3814595.46	449.70	460.30	439.60	426.30	420.00	439.90	417.50	394.70	398.60
3814520.46	454.20	461.40	429.60	411.80	404.10	403.00	409.00	385.50	374.60
3814445.46	453.50	456.80	438.00	425.80	414.80	396.90	388.40	380.60	395.10
3814370.46	451.80	421.50	411.00	411.80	428.80	415.70	399.50	403.80	380.80
3814295.46	440.40	417.20	402.50	393.70	398.20	403.40	401.00	401.80	381.70
3814220.46	423.80	427.40	402.60	387.80	382.00	382.20	386.50	413.60	406.70
3814145.46	420.20	409.90	414.50	394.40	375.10	366.90	385.40	378.20	398.50
3814070.46	409.50	410.40	410.00	379.70	371.70	361.30	365.30	368.30	368.70
3813995.46	387.70	397.20	410.40	379.80	367.80	367.50	358.40	350.50	360.10
3813920.46	392.00	408.60	409.10	388.50	389.10	362.60	360.10	346.20	338.50
3813845.46	394.80	397.20	380.50	401.00	396.90	384.10	389.10	364.60	357.60
3813770.46	381.20	377.50	382.60	375.80	379.70	381.50	395.60	392.70	364.90
3813695.46	361.80	367.20	370.80	362.70	367.80	387.30	382.60	372.80	349.10
3813620.46	355.30	359.10	366.30	358.30	362.70	368.00	375.70	362.30	336.90
3813545.46	348.60	349.90	349.60	353.10	364.90	357.80	383.40	358.90	332.50
3813470.46	346.10	345.30	344.40	347.10	347.10	366.60	367.70	360.10	345.20
3813395.46	344.70	342.90	341.60	341.60	341.30	350.00	369.90	380.70	344.30
3813320.46	343.00	340.70	339.20	339.10	339.90	341.90	361.40	353.50	345.30
3813245.46	342.20	339.60	338.10	338.00	338.00	336.90	337.90	363.60	337.20
3813170.46	346.10	341.50	338.20	336.70	336.90	335.70	334.10	347.00	340.90

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	418.40	427.80	424.70	407.00
3816020.46	399.80	416.10	400.50	392.70
3815945.46	390.40	402.30	392.80	375.90
3815870.46	388.50	394.20	374.20	371.90
3815795.46	384.40	376.00	385.30	366.70
3815720.46	376.80	376.10	366.90	365.90
3815645.46	369.60	369.90	364.20	356.80
3815570.46	363.80	365.10	363.60	365.00
3815495.46	364.50	358.80	356.60	356.80
3815420.46	366.70	358.30	355.50	350.20
3815345.46	368.50	366.60	359.50	351.40
3815270.46	382.90	386.40	367.50	355.60
3815195.46	401.50	392.00	387.50	377.40
3815120.46	418.80	419.20	414.10	391.90
3815045.46	425.90	416.10	398.80	399.40
3814970.46	422.80	425.70	419.20	404.50
3814895.46	404.80	418.20	409.90	403.50
3814820.46	396.00	404.80	409.00	395.30
3814745.46	393.60	385.40	396.60	404.80
3814670.46	397.50	397.60	385.60	375.40
3814595.46	386.20	391.80	393.80	379.30
3814520.46	366.80	365.90	375.80	387.60
3814445.46	389.80	372.30	356.30	376.90
3814370.46	372.10	372.50	350.00	361.10
3814295.46	369.20	350.60	346.20	356.10
3814220.46	370.90	367.50	345.80	338.50
3814145.46	391.50	364.20	372.50	346.10
3814070.46	380.70	386.70	375.80	349.00
3813995.46	348.70	348.50	361.30	356.40
3813920.46	338.30	335.60	335.70	336.40
3813845.46	339.20	335.40	327.20	326.70
3813770.46	364.90	359.80	335.40	323.40
3813695.46	342.50	338.10	322.60	320.10
3813620.46	327.30	320.20	318.70	318.10
3813545.46	325.30	319.10	318.00	318.00
3813470.46	320.20	317.20	317.00	317.00
3813395.46	319.60	317.60	317.00	317.00

3813320.46	319.60	318.10	317.00	316.00
3813245.46	319.60	316.20	316.00	316.00
3813170.46	320.00	316.00	316.00	315.90

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	760.00	760.00	760.00	760.00	609.00	609.00	609.00	609.00	609.00
3816020.46	760.00	760.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00
3815945.46	760.00	760.00	760.00	609.00	700.00	609.00	700.00	609.00	609.00
3815870.46	760.00	760.00	760.00	700.00	700.00	609.00	700.00	609.00	609.00
3815795.46	760.00	760.00	760.00	760.00	700.00	700.00	700.00	609.00	609.00
3815720.46	760.00	760.00	760.00	609.00	609.00	700.00	609.00	609.00	609.00
3815645.46	760.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00	609.00
3815570.46	700.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00	609.00
3815495.46	496.00	700.00	609.00	463.00	609.00	609.00	609.00	585.00	482.00
3815420.46	700.00	700.00	574.00	465.00	609.00	609.00	609.00	482.00	609.00
3815345.46	496.00	609.00	482.00	465.00	609.00	609.00	609.00	609.00	585.00
3815270.46	496.00	574.00	482.00	481.00	609.00	609.00	585.00	481.00	481.00
3815195.46	496.00	496.00	482.00	481.00	609.00	609.00	609.00	481.00	481.00
3815120.46	496.00	496.00	482.00	481.00	482.00	609.00	609.00	524.00	481.00
3815045.46	496.00	495.00	482.00	481.00	481.00	609.00	609.00	585.00	524.00
3814970.46	495.00	481.00	481.00	481.00	481.00	574.00	609.00	574.00	524.00
3814895.46	452.00	452.00	452.00	452.00	481.00	481.00	585.00	585.00	524.00
3814820.46	452.00	452.00	452.00	452.00	481.00	481.00	574.00	574.00	524.00

3814745.46	452.00	452.00	452.00	481.00	481.00	481.00	524.00	524.00	524.00
3814670.46	524.00	475.00	475.00	481.00	481.00	524.00	524.00	524.00	524.00
3814595.46	527.00	524.00	481.00	481.00	481.00	524.00	524.00	524.00	524.00
3814520.46	527.00	524.00	481.00	481.00	481.00	524.00	524.00	524.00	524.00
3814445.46	527.00	524.00	517.00	481.00	481.00	524.00	524.00	524.00	524.00
3814370.46	524.00	524.00	475.00	475.00	481.00	481.00	524.00	524.00	524.00
3814295.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	524.00	524.00
3814220.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	524.00
3814145.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3814070.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813995.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813920.46	475.00	475.00	475.00	473.00	475.00	475.00	475.00	475.00	475.00
3813845.46	475.00	475.00	475.00	475.00	475.00	473.00	475.00	475.00	475.00
3813770.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813695.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813620.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813545.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813470.46	475.00	473.00	475.00	475.00	475.00	473.00	464.00	475.00	473.00
3813395.46	475.00	475.00	475.00	475.00	475.00	464.00	464.00	464.00	464.00
3813320.46	504.00	504.00	504.00	504.00	504.00	504.00	464.00	464.00	464.00
3813245.46	504.00	504.00	504.00	504.00	464.00	464.00	464.00	464.00	464.00
3813170.46	504.00	504.00	504.00	464.00	464.00	504.00	464.00	464.00	504.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	585.00	524.00	585.00
3815495.46	479.80	609.00	609.00	609.00	609.00	609.00	585.00	524.00	524.00
3815420.46	480.00	574.00	609.00	609.00	609.00	609.00	585.00	524.00	524.00
3815345.46	481.00	524.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00
3815270.46	481.00	574.00	609.00	609.00	574.00	524.00	524.00	524.00	524.00
3815195.46	524.00	585.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00
3815120.46	585.00	609.00	609.00	609.00	524.00	524.00	524.00	524.00	524.00
3815045.46	524.00	609.00	609.00	524.00	524.00	524.00	524.00	524.00	524.00
3814970.46	524.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00	524.00
3814895.46	524.00	585.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814820.46	524.00	585.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00

3814745.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814670.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814595.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814520.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814445.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814370.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814295.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814220.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814145.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814070.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3813995.46	475.00	475.00	475.00	524.00	524.00	524.00	524.00	524.00
3813920.46	475.00	475.00	475.00	524.00	524.00	524.00	524.00	524.00
3813845.46	475.00	475.00	475.00	475.00	473.00	441.00	524.00	524.00
3813770.46	475.00	475.00	441.00	441.00	441.00	447.00	520.00	520.00
3813695.46	475.00	473.00	439.00	441.00	441.00	464.00	447.00	520.00
3813620.46	475.00	464.00	441.00	441.00	441.00	441.00	464.00	443.00
3813545.46	473.00	473.00	464.00	441.00	464.00	464.00	443.00	432.00
3813470.46	464.00	464.00	464.00	443.00	443.00	464.00	441.00	432.00
3813395.46	464.00	464.00	464.00	464.00	464.00	432.00	504.00	441.00
3813320.46	464.00	464.00	464.00	464.00	504.00	504.00	504.00	504.00
3813245.46	504.00	504.00	504.00	504.00	504.00	504.00	504.00	504.00
3813170.46	504.00	504.00	504.00	504.00	504.00	504.00	504.00	504.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815495.46	524.00	524.00	609.00	524.00	609.00	609.00	609.00	609.00	609.00
3815420.46	524.00	524.00	524.00	524.00	585.00	557.00	524.00	557.00	557.00
3815345.46	524.00	524.00	524.00	524.00	524.00	524.00	519.00	524.00	524.00
3815270.46	524.00	524.00	524.00	524.00	513.00	513.00	516.00	516.00	516.00
3815195.46	524.00	524.00	524.00	524.00	524.00	519.00	524.00	520.00	516.00
3815120.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00	516.00
3815045.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3814970.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3814895.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814820.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00

3814745.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814670.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00
3814595.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00
3814520.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814445.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814370.46	524.00	524.00	524.00	524.00	520.00	524.00	524.00	520.00
3814295.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814220.46	524.00	524.00	524.00	520.00	524.00	520.00	524.00	520.00
3814145.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814070.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3813995.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00
3813920.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00
3813845.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3813770.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3813695.46	520.00	520.00	524.00	524.00	524.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813545.46	432.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813470.46	432.00	441.00	520.00	520.00	520.00	520.00	520.00	520.00
3813395.46	432.00	432.00	432.00	432.00	520.00	520.00	520.00	520.00
3813320.46	504.00	432.00	403.30	405.00	432.00	504.00	520.00	520.00
3813245.46	504.00	504.00	504.00	405.00	405.00	405.00	482.00	482.00
3813170.46	504.00	504.00	504.00	504.00	405.00	405.00	405.00	409.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	579.00	579.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815495.46	579.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815420.46	524.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815345.46	520.00	524.00	534.00	579.00	579.00	579.00	609.00	579.00	609.00
3815270.46	520.00	524.00	524.00	524.00	520.00	520.00	552.00	520.00	552.00
3815195.46	516.00	520.00	520.00	520.00	487.00	520.00	520.00	520.00	520.00
3815120.46	520.00	520.00	520.00	520.00	520.00	485.00	487.00	520.00	520.00
3815045.46	520.00	520.00	520.00	520.00	520.00	485.00	485.00	520.00	520.00
3814970.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814895.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814820.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

3814745.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814670.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814595.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814520.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3814445.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814370.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814295.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814220.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814145.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3814070.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3813995.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813920.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813845.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813770.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813695.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813545.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813470.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813395.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813320.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813245.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813170.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	609.00	579.00	579.00	579.00
3816020.46	609.00	579.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00
3815495.46	609.00	609.00	609.00	609.00
3815420.46	609.00	609.00	609.00	609.00
3815345.46	609.00	609.00	609.00	609.00
3815270.46	579.00	579.00	579.00	609.00
3815195.46	534.00	534.00	534.00	552.00
3815120.46	520.00	520.00	520.00	520.00
3815045.46	520.00	520.00	520.00	520.00
3814970.46	520.00	520.00	520.00	520.00
3814895.46	520.00	520.00	520.00	520.00
3814820.46	520.00	520.00	520.00	520.00
3814745.46	520.00	520.00	520.00	520.00
3814670.46	520.00	520.00	520.00	520.00
3814595.46	520.00	520.00	520.00	520.00
3814520.46	524.00	520.00	520.00	520.00
3814445.46	520.00	520.00	520.00	520.00
3814370.46	520.00	520.00	520.00	520.00
3814295.46	520.00	520.00	520.00	520.00
3814220.46	520.00	520.00	520.00	520.00
3814145.46	520.00	520.00	520.00	520.00
3814070.46	520.00	520.00	520.00	520.00
3813995.46	520.00	520.00	520.00	520.00
3813920.46	520.00	520.00	520.00	520.00
3813845.46	520.00	520.00	520.00	520.00
3813770.46	520.00	520.00	520.00	520.00
3813695.46	520.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00
3813545.46	520.00	520.00	520.00	520.00
3813470.46	520.00	520.00	520.00	520.00
3813395.46	520.00	520.00	520.00	520.00

3813320.46	520.00	520.00	520.00	520.00
3813245.46	520.00	520.00	520.00	520.00
3813170.46	520.00	520.00	520.00	520.00

**MODELOPTs: RegDFAULT CONC ELEV

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

```
     ( 350508.9, 3814829.9,     424.8,     520.0,       0.0);         (
350283.7, 3815266.5,     441.1,     524.0,       0.0);
     ( 350539.8, 3814604.7,     430.8,     520.0,       0.0);         (
350467.6, 3814245.4,     385.7,     520.0,       0.0);
     ( 350008.7, 3813941.2,     374.5,     524.0,       0.0);         (
350147.9, 3813936.0,     378.9,     520.0,       0.0);
     ( 350557.0, 3814453.4,     397.3,     520.0,       0.0);         (
349200.8, 3815251.0,     455.4,     524.0,       0.0);
     ( 349173.3, 3815257.9,     461.5,     524.0,       0.0);         (
348862.6, 3814174.1,     380.0,     524.0,       0.0);
     ( 348862.6, 3815183.5,     439.9,     585.0,       0.0);         (
350494.7, 3815179.7,     481.9,     487.0,       0.0);
     ( 350487.0, 3814363.6,     425.7,     520.0,       0.0);         (
350216.2, 3814363.6,     442.9,     520.0,       0.0);
     ( 350216.2, 3814193.4,     425.3,     520.0,       0.0);         (
349991.9, 3813969.1,     381.1,     520.0,       0.0);
     ( 349794.7, 3813961.4,     363.8,     524.0,       0.0);         (
349597.4, 3814065.8,     372.8,     524.0,       0.0);
     ( 349121.7, 3814085.1,     372.9,     524.0,       0.0);
```

**MODELOPTs: RegDFAULT CONC ELEV

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
VOL1	349820.3	3814070.5	-28.63
VOL1	349895.3	3814070.5	-47.40
VOL1	349970.3	3814070.5	-19.91
VOL1	349745.3	3814145.5	-10.63
VOL1	349820.3	3814145.5	-81.46
VOL1	349895.3	3814145.5	-121.82
VOL1	349970.3	3814145.5	-67.45
VOL1	349745.3	3814220.5	-9.02
VOL1	349820.3	3814220.5	-78.38
VOL1	349895.3	3814220.5	-115.61
VOL1	349970.3	3814220.5	-64.84
VOL1	349820.3	3814295.5	-23.19
VOL1	349895.3	3814295.5	-41.08
VOL1	349970.3	3814295.5	-14.81
VOL2	349295.3	3814145.5	-15.85
VOL2	349370.3	3814145.5	-40.21
VOL2	349445.3	3814145.5	-16.17

	VOL2	349295.3	3814220.5
-63.61			
	VOL2	349370.3	3814220.5
-115.21			
	VOL2	349445.3	3814220.5
-64.13			
	VOL2	349295.3	3814295.5
-56.16			
	VOL2	349370.3	3814295.5
-98.43			
	VOL2	349445.3	3814295.5
-56.63			
	VOL2	349295.3	3814370.5
-1.91			
	VOL2	349370.3	3814370.5
-23.43			
	VOL2	349445.3	3814370.5
-2.20			
	VOL3	349595.3	3814520.5
-2.17			
	VOL3	349670.3	3814520.5
-38.30			
	VOL3	349745.3	3814520.5
-29.27			
	VOL3	349595.3	3814595.5
-43.76			
	VOL3	349670.3	3814595.5
-107.96			
	VOL3	349745.3	3814595.5
-87.35			
	VOL3	349820.3	3814595.5
-17.41			
	VOL3	349595.3	3814670.5
-39.55			
	VOL3	349670.3	3814670.5
-97.95			
	VOL3	349745.3	3814670.5
-80.35			
	VOL3	349820.3	3814670.5
-14.03			
	VOL3	349670.3	3814745.5
-26.68			
	VOL3	349745.3	3814745.5
-18.46			

**MODELOPTs: RegDFAULT CONC ELEV

*** 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
```

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2005
1 1 1
AND END DATE: 2005
12 31 24

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: RegDFAULT CONC ELEV

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

Surface file: met\burk6.sfc
Met Version: 12345
Profile file: met\burk6.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	-3.2	0.063	-9.000	-9.000	-999.	37.	7.1	0.53	1.00	1.00	0.90	285.	9.1	279.9	5.5
05	01	01	1	02	-2.6	0.063	-9.000	-9.000	-999.	37.	8.7	0.53	1.00	1.00	0.90	277.	9.1	279.9	5.5
05	01	01	1	03	-2.6	0.063	-9.000	-9.000	-999.	37.	8.7	0.53	1.00	1.00	0.90	335.	9.1	279.2	5.5
05	01	01	1	04	-2.6	0.063	-9.000	-9.000	-999.	37.	8.6	0.53	1.00	1.00	0.90	291.	9.1	278.8	5.5
05	01	01	1	05	-3.0	0.063	-9.000	-9.000	-999.	37.	7.4	0.53	1.00	1.00	0.90	334.	9.1	278.1	5.5
05	01	01	1	06	-0.5	0.028	-9.000	-9.000	-999.	11.	3.8	0.53	1.00	1.00	0.40	309.	9.1	278.8	5.5
05	01	01	1	07	-2.6	0.063	-9.000	-9.000	-999.	37.	8.6	0.53	1.00	1.00	0.90	313.	9.1	278.8	5.5
05	01	01	1	08	-0.4	0.028	-9.000	-9.000	-999.	11.	4.5	0.53	1.00	0.56	0.40	256.	9.1	279.2	5.5
05	01	01	1	09	0.1	0.128	0.022	0.005	4.	105.	-1838.7	0.53	1.00	0.33	0.90	298.	9.1	282.5	5.5
05	01	01	1	10	0.1	0.128	0.025	0.005	5.	105.	-1838.7	0.53	1.00	0.25	0.90	103.	9.1	286.4	5.5
05	01	01	1	11	0.1	0.310	0.027	0.005	7.	397.	-8888.0	0.53	1.00	0.22	2.20	136.	9.1	287.0	5.5
05	01	01	1	12	0.1	0.310	0.028	0.005	8.	397.	-8888.0	0.53	1.00	0.21	2.20	152.	9.1	287.0	5.5
05	01	01	1	13	0.1	0.254	0.029	0.005	9.	295.	-8888.0	0.53	1.00	0.21	1.80	187.	9.1	285.9	5.5
05	01	01	1	14	0.1	0.184	0.030	0.005	9.	182.	-5471.6	0.53	1.00	0.22	1.30	157.	9.1	287.0	5.5

```
 05 01 01   1 15    0.1  0.184  0.031  0.005   10.  181.  -5471.6  0.53   1.00
0.26    1.30  192.    9.1  286.4    5.5
 05 01 01   1 16    0.1  0.254  0.031  0.005   11.  294.  -8888.0  0.53   1.00
0.34    1.80  188.    9.1  285.9    5.5
 05 01 01   1 17   -4.9  0.092 -9.000 -9.000 -999.   88.     13.8  0.53   1.00
0.61    1.30  200.    9.1  285.4    5.5
 05 01 01   1 18   -2.6  0.063 -9.000 -9.000 -999.   37.      8.7  0.53   1.00
1.00    0.90  162.    9.1  284.9    5.5
 05 01 01   1 19   -3.0  0.063 -9.000 -9.000 -999.   37.      7.5  0.53   1.00
1.00    0.90  176.    9.1  284.9    5.5
 05 01 01   1 20   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  210.    9.1  284.2    5.5
 05 01 01   1 21   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  236.    9.1  284.2    5.5
 05 01 01   1 22   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  272.    9.1  283.8    5.5
 05 01 01   1 23   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  251.    9.1  283.1    5.5
 05 01 01   1 24   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  301.    9.1  282.5    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   279.9   99.0  -99.00  -99.00
 05 01 01 01    9.1 1  285.    0.90  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	0.83869	1.01785	0.99759	0.84994	0.75434	0.77118	0.77890	0.69363	0.75920
3816020.46	1.08212	1.16551	1.07828	0.84549	0.82354	0.82233	0.90899	0.79050	0.84259
3815945.46	1.29901	1.29722	1.13446	0.89007	0.96073	0.88700	1.04018	0.87986	0.94261
3815870.46	1.58222	1.53729	1.38502	1.23661	1.14234	1.06771	1.20046	1.06191	1.05916
3815795.46	1.72149	1.75445	1.69645	1.58258	1.28919	1.50931	1.47149	1.29204	1.23568
3815720.46	2.05612	1.96994	1.79757	1.35809	1.29793	1.94156	1.70932	1.54057	1.45054
3815645.46	2.26080	2.30044	2.06203	1.50482	1.53069	2.24161	2.03512	1.96692	1.59780
3815570.46	2.17649	2.70658	2.42015	1.59998	1.76678	3.07345	2.41490	1.66643	1.36816
3815495.46	2.28307	3.08792	2.62094	1.58311	2.70487	3.13442	2.16439	1.49469	1.32480
3815420.46	3.28070	3.57485	2.67482	1.72454	3.62142	3.42564	2.01173	1.56144	1.85059
3815345.46	3.79296	4.17623	2.89960	2.20383	4.64782	3.68015	2.72566	2.84399	2.15132
3815270.46	4.49568	4.65173	3.15088	3.20541	5.87490	4.58431	3.13381	2.07073	1.70498
3815195.46	5.07666	5.25962	4.16663	3.54362	6.83797	6.66577	4.81583	2.65511	1.96439
3815120.46	5.52069	5.52087	4.73795	3.66261	5.44498	9.50563	6.83438	4.63573	2.81939
3815045.46	5.94722	5.98833	5.71719	4.74451	5.40400	11.68804	10.17585	7.93750	4.69319

3814970.46	5.91770	5.33416	4.48761	4.12201	4.16254	10.36054	13.81194	8.86761	5.85714
3814895.46	3.03061	2.97290	2.54508	3.22351	4.37421	7.43461	16.89841	16.56788	11.06707
3814820.46	3.00294	3.70864	2.82286	4.19966	5.28127	6.20254	16.93774	18.60489	11.36746
3814745.46	4.66651	6.29405	4.45305	6.55120	7.13334	6.87666	15.26611	18.86682	20.17471
3814670.46	7.69850	8.41520	7.47437	7.12129	11.09024	13.06729	17.53676	20.77683	21.96389
3814595.46	7.45184	9.12524	10.81740	11.47347	11.36782	15.51088	17.66874	20.01724	19.81455
3814520.46	6.96993	8.38546	10.12614	11.54260	14.37341	16.04507	17.93994	20.19383	13.89315
3814445.46	6.63160	7.88348	9.20674	10.49680	13.55425	15.09034	16.86753	18.96622	18.97369
3814370.46	4.27386	6.35733	7.64572	9.07577	12.70749	14.07603	15.70599	17.51964	19.73601
3814295.46	1.04843	2.42750	4.70922	7.29964	8.34956	10.06685	14.55271	16.20286	18.09763
3814220.46	0.51921	1.52419	3.31061	2.91876	4.11233	5.42899	13.37725	15.00693	16.56122
3814145.46	0.72885	1.19026	0.76588	0.50346	0.76363	3.53021	7.54332	13.90558	15.39827
3814070.46	0.63556	0.28209	0.14159	0.17027	0.49065	2.91032	5.98146	5.87805	14.43257
3813995.46	0.18765	0.11272	0.10103	0.14376	0.27854	1.11001	1.48868	2.38774	7.50511
3813920.46	0.38245	0.24676	0.17839	0.10125	0.16899	0.46100	0.36856	0.66756	2.80016
3813845.46	1.22206	0.70108	0.18891	0.10399	0.12409	0.13185	0.17807	0.26416	0.70637
3813770.46	1.61454	1.40018	0.58559	0.16732	0.20609	0.18115	0.21460	0.26919	0.88742
3813695.46	2.56956	1.56950	0.40361	0.24507	0.36499	0.43671	0.86733	1.24517	5.84875
3813620.46	3.00692	2.42960	0.76134	0.27620	0.63078	1.54608	2.67897	4.51599	4.18482
3813545.46	2.77545	0.80076	0.21552	0.20303	0.75800	1.51730	1.09982	3.10562	2.18382
3813470.46	1.11104	0.23528	0.56538	0.55730	0.43655	0.27548	0.29932	1.64303	0.99094
3813395.46	1.89734	1.21100	2.29324	1.82659	1.38044	0.30717	0.23864	0.65883	0.30375
3813320.46	5.34373	5.62161	3.12269	2.85103	1.33975	0.92727	0.21589	0.18242	0.20868
3813245.46	3.04876	2.82606	1.79549	0.95439	0.21147	0.17561	0.13462	0.10388	0.11949
3813170.46	1.46252	1.04080	0.40346	0.18196	0.15762	0.22260	0.11064	0.10132	0.15869

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	0.75342	0.62795	0.71128	0.59444	0.59221	0.55026	0.56642	0.68043	0.67122
3816020.46	0.80039	0.69192	0.79288	0.66450	0.71253	0.61495	0.69984	0.75211	0.71481
3815945.46	0.90175	0.87887	0.90043	0.78562	0.81903	0.66762	0.75004	0.85207	0.78551
3815870.46	1.02679	1.00397	0.98028	0.94666	0.94227	0.84970	0.82810	0.95001	1.05478
3815795.46	1.17365	1.10095	1.15285	1.13516	1.08863	0.99700	0.93749	0.93143	1.10902
3815720.46	1.28926	1.25812	1.40072	1.32441	1.24430	1.16006	1.07224	1.06177	1.23032
3815645.46	1.41038	1.30342	1.47225	1.54168	1.43748	1.32851	1.16277	1.08473	1.12899
3815570.46	1.36298	1.36334	1.54806	1.82048	1.62791	1.35486	1.14032	1.06296	1.08306
3815495.46	1.34069	1.45377	1.54032	2.08229	1.69610	1.41816	1.28965	1.21770	1.01621
3815420.46	1.46564	1.57234	1.99171	2.56760	2.08961	1.81133	1.54422	1.39153	1.24819
3815345.46	1.65555	1.80728	2.58732	2.76869	1.86322	1.63169	1.59828	1.27954	1.22334
3815270.46	2.07270	2.24243	3.01851	3.74968	2.14144	2.01972	1.82731	1.46479	1.61967
3815195.46	2.88837	3.22698	5.63593	3.61653	2.83949	2.29459	2.06217	1.85618	2.00580
3815120.46	4.43003	5.45677	6.61523	4.77819	3.30894	2.50464	2.30979	2.40989	2.58356
3815045.46	5.74631	8.23181	7.42158	3.57187	3.61868	3.23711	2.99563	3.21013	3.53869

3814970.46	5.71352	13.28641	12.16022	8.65233	5.15430	3.30248	4.08479	4.96443	4.66197	
3814895.46	8.80713	16.22257	11.31927	7.15909	4.94976	4.56865	6.10053	8.60377	4.66662	
3814820.46	17.40190	24.48145	16.50721	10.83927	12.73220	10.44535	9.80490	12.08969	7.54521	
3814745.46	23.33505	25.03237	11.63963	17.42612	15.89694	15.75817	19.25119	15.18838	6.07546	
3814670.46	25.72606	24.24050	17.17561	24.48785	34.89432	30.76241	36.74506	21.18491	10.21937	
3814595.46	22.56305	10.80842	17.66700	40.32680	49.83523	47.89737	58.17423	40.66686	24.04749	
3814520.46	9.05851	12.66476	20.29160	39.42551	49.35412	54.86695	69.85722	71.64070	27.08518	
3814445.46	20.16489	24.94211	26.68716	31.89303	47.20725	57.66776	66.07082	36.58727	30.70403	
3814370.46	22.56188	25.52783	29.24429	35.36040	42.72055	53.38298	27.58197	40.87148	48.23085	
3814295.46	20.29259	22.83352	26.23892	30.69720	37.21492	45.38190	50.61180	66.15009	44.50501	
3814220.46	18.34016	20.56174	23.26635	26.81780	31.33222	37.13462	46.05789	63.15954	69.97972	
3814145.46	16.90839	18.66546	20.74595	23.51618	26.86778	31.35696	37.18495	46.25050	63.23395	
3814070.46	15.53713	17.24158	19.31476	21.29811	23.94314	27.29993	31.99727	38.55977	48.35972	
3813995.46	15.13413	16.94776	18.72755	19.54683	21.73158	24.65029	28.63635	34.02027	41.40898	
3813920.46	14.22633	15.34984	16.90107	18.62188	20.58398	23.30640	26.51311	30.37558	36.30131	
3813845.46	13.59678	15.00675	16.73600	18.99743	10.68742	25.09737	25.21503	28.04913	31.98614	
3813770.46	13.01090	1.24762	1.05946	2.33501	2.43338	23.15193	23.14540	26.00437	28.65297	
3813695.46	3.72792	1.02065	0.18013	0.34812	2.01975	21.15808	23.60379	24.52028	25.36302	
3813620.46	4.29110	0.80154	0.27541	0.24161	0.43238	1.01946	21.22593	23.72046	25.27681	
3813545.46	1.43368	2.08073	0.73256	0.38811	1.67579	7.41242	5.58883	0.82732	3.65505	
3813470.46	0.38845	0.68393	0.84856	0.37122	0.53305	2.42516	1.49369	0.24084	1.08111	
3813395.46	0.21672	0.18857	0.46530	0.41278	1.47119	0.73322	6.69572	4.56569	0.74196	
3813320.46	0.13285	0.18838	0.25657	0.34752	3.71009	6.97607	14.11221	15.09375	6.00824	
3813245.46	0.22365	0.42801	1.48581	0.98400	1.43551	1.48349	7.23966	12.93665	14.38675	
3813170.46	0.24617	0.54460	1.49854	4.32230	3.11045	11.02621	11.63024	11.91811	12.03576	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	0.72405	0.74938	0.88197	0.98246	0.97801	0.97731	0.99648	1.39417	1.08066
3816020.46	0.87505	0.91476	0.94317	1.17400	1.29791	1.44074	1.13626	1.41485	1.74528
3815945.46	1.00312	1.28226	1.21938	1.39633	1.61406	1.81487	1.88043	1.64799	2.35425
3815870.46	1.06535	1.42895	1.67566	1.87510	2.05124	2.23337	2.56504	2.51525	2.83746
3815795.46	1.36817	1.58059	1.83528	2.11932	2.43781	2.90566	3.42723	4.41987	5.02886
3815720.46	1.33463	1.24141	1.40449	2.30208	2.71088	3.42846	3.17675	3.64556	6.36884
3815645.46	1.27561	1.21117	1.88183	2.51647	2.47020	2.56342	3.42162	4.56696	6.37206
3815570.46	1.25817	1.29558	1.86132	1.96937	2.09083	2.64112	2.67782	3.92700	4.28211
3815495.46	1.23168	1.30478	1.62937	1.49870	1.94428	2.40162	1.97527	2.21585	2.71154
3815420.46	1.24422	1.28627	1.40324	1.72511	1.96440	1.98655	1.84087	2.06882	1.95447
3815345.46	1.11757	1.20718	1.28545	1.68362	1.83331	1.86409	1.79084	1.88397	1.61537
3815270.46	1.37828	1.51975	1.46811	1.61538	1.58716	1.78587	1.80052	1.70486	1.45908
3815195.46	1.89195	1.73496	1.79626	2.11563	2.12529	2.04801	2.32101	2.05653	1.47771
3815120.46	2.34636	2.10289	1.83256	2.50331	2.60357	2.46162	2.71230	2.27315	1.67954
3815045.46	2.91754	2.46785	2.48703	2.70426	3.32782	3.07841	3.20153	2.53400	1.97341

3814970.46	3.05507	2.86064	3.39629	3.13681	3.94149	3.96846	3.67100	2.96333	1.98708
3814895.46	4.05023	3.93682	4.61760	3.81407	4.83711	5.20798	3.87946	2.60402	2.04823
3814820.46	4.88781	5.20038	6.57823	5.35743	6.47506	5.87483	4.17757	3.23612	2.78237
3814745.46	5.48141	6.02074	8.32805	7.52195	9.60919	7.41605	5.86501	4.65738	3.86189
3814670.46	10.42789	13.69947	11.28999	12.86941	15.04875	11.78887	9.16133	6.70627	5.03155
3814595.46	19.54777	32.71284	33.23382	24.53811	23.98731	16.77504	12.38689	8.78356	5.94096
3814520.46	23.37336	67.01892	60.07126	63.35028	30.26566	14.89097	12.23222	8.31471	6.30569
3814445.46	33.65591	135.67763	187.83789	126.86408	55.07424	32.39769	18.89597	14.94751	7.24968
3814370.46	84.20331	212.09088	278.64942	106.73586	43.42679	46.63429	41.97604	18.83298	13.92275
3814295.46	135.74851	217.33593	185.80527	69.10122	0.00000	0.00000	0.00000	29.22982	15.25827
3814220.46	127.61459	181.34308	71.58524	0.00000	0.00000	0.00000	0.00000	62.02278	20.29205
3814145.46	87.54544	131.10583	228.42282	0.00000	0.00000	0.00000	0.00000	170.45327	206.56936
3814070.46	64.41927	91.93785	130.88597	250.83424	0.00000	0.00000	0.00000	83.68991	284.68437
3813995.46	52.40670	68.53388	92.54159	126.27704	165.78165	238.23000	133.91555	228.53067	179.22985
3813920.46	44.15580	54.74463	68.61770	85.15081	101.81471	116.78513	140.17203	127.32936	136.58507
3813845.46	37.27439	44.00045	52.18761	60.73930	68.16142	74.03182	78.49249	84.55414	89.00494
3813770.46	31.56431	35.86048	40.78892	45.52610	49.26686	51.96738	54.24988	56.76506	68.80802
3813695.46	26.99969	29.81674	32.77083	35.49878	37.57875	39.02158	40.22429	52.48158	48.88177
3813620.46	25.70614	26.86956	26.94805	28.57812	29.78021	30.59695	31.31700	32.20701	33.14208
3813545.46	11.06852	24.05378	23.04497	23.89644	24.36220	24.80790	25.22834	25.70973	26.38704
3813470.46	21.73744	21.84825	20.58661	21.41241	20.69350	20.64984	20.88154	21.17071	21.62108
3813395.46	3.66903	20.39803	21.35018	20.18994	18.16252	17.60611	17.70557	17.87345	18.12273
3813320.46	16.83710	9.87891	2.25476	8.87646	18.00717	16.09626	15.85674	15.40923	15.46709
3813245.46	14.12600	15.28064	15.86082	3.01588	5.46899	16.77346	14.49158	13.92489	13.68754
3813170.46	12.68734	12.08450	12.62382	14.63448	7.91058	4.64309	14.86992	13.30396	12.26284

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	1.28603	0.83430	0.75352	1.33084	0.78086	0.92058	0.52868	0.70481	4.32250
3816020.46	1.72379	1.71479	1.47498	1.43251	1.91591	1.84399	1.10580	1.62014	2.57007
3815945.46	2.25252	2.60460	3.82599	5.02638	3.69327	4.41091	3.34703	5.77572	4.55526
3815870.46	3.37062	4.05066	6.38548	7.19576	5.84486	6.22922	4.83577	7.76901	6.13732
3815795.46	5.16855	5.80269	6.60675	7.92704	9.01874	7.71253	8.49187	8.22733	7.86541
3815720.46	7.43973	7.65730	8.19597	9.97951	9.70254	9.37058	9.00664	8.56832	8.14909
3815645.46	7.58245	9.37943	9.54111	10.75070	10.34228	9.73735	9.27942	8.64847	8.19109
3815570.46	3.64968	8.47125	9.54586	9.14056	11.15705	10.39199	10.09870	9.20570	8.52069
3815495.46	1.74251	3.02242	5.32944	2.29264	7.03231	10.02820	11.00289	10.08766	9.26655
3815420.46	1.43037	2.32667	2.87576	5.37079	8.74123	10.26392	11.80345	11.00727	10.09683
3815345.46	1.34774	1.35648	2.17149	3.57219	4.08524	5.90024	10.92502	11.98831	11.00179
3815270.46	1.51285	1.57162	1.99248	1.70958	1.24825	1.93864	5.25803	1.79003	8.90133
3815195.46	1.42342	1.41327	1.40647	1.28230	1.10395	1.09575	1.08913	1.81730	6.47859
3815120.46	1.64854	1.42771	1.35477	1.33676	1.27378	1.10427	1.04501	1.09851	1.97065
3815045.46	1.74972	1.77303	1.63171	1.45159	1.50121	1.15815	1.05382	1.13760	1.14265

3814970.46	2.03892	1.81623	2.01326	1.63623	1.85205	1.29114	1.27666	1.06723	2.08137
3814895.46	2.14522	2.21246	2.00756	2.15789	2.15910	1.70032	1.94213	1.96168	3.96062
3814820.46	2.51525	2.51178	2.42631	2.15964	2.46557	3.28468	5.29310	11.95098	15.94638
3814745.46	2.88143	2.55860	2.08143	1.84427	1.75430	1.61060	1.79460	1.65428	10.70315
3814670.46	3.99969	2.82410	2.52979	2.34077	1.93217	1.65922	2.79370	4.70638	3.72353
3814595.46	4.35202	3.19191	3.08965	3.34085	4.19422	2.00394	4.56721	28.24690	23.09433
3814520.46	4.64217	3.43304	3.91445	8.66776	18.33455	20.32298	10.13245	30.06699	24.72669
3814445.46	5.27254	4.00747	3.93077	4.22943	7.44563	40.99380	37.07794	31.65792	33.21318
3814370.46	6.28446	7.76335	13.34809	11.50636	3.82135	7.42474	36.16623	22.15511	30.44588
3814295.46	8.40709	11.27540	39.95482	85.14621	56.43615	28.95036	35.42821	30.23433	32.87579
3814220.46	12.30240	8.22036	47.30336	84.28560	66.23521	55.19561	47.85940	9.35660	18.67117
3814145.46	13.03761	24.81301	13.65719	113.65055	64.49408	49.12953	50.31430	40.65569	45.03423
3814070.46	27.73965	22.69793	21.71065	84.96831	62.63503	48.00109	42.13057	37.53538	33.02256
3813995.46	169.02318	124.77386	19.16284	80.52455	57.90782	49.13205	39.67703	33.56480	30.69787
3813920.46	153.72824	20.89016	19.73932	76.69990	64.81096	44.49048	38.20215	32.08479	28.08420
3813845.46	93.57665	79.36988	73.07737	51.07043	71.23042	50.72695	44.60164	32.83769	28.01969
3813770.46	69.99294	63.04320	62.11970	51.92313	49.03815	44.76690	56.40822	52.61964	27.79736
3813695.46	43.92620	44.74392	44.45206	38.74777	37.50759	40.84539	36.60688	30.51553	23.72830
3813620.46	33.99627	34.46559	35.37733	32.17033	31.22326	30.67746	30.87475	25.34805	21.48632
3813545.46	27.09507	27.54002	27.37812	26.88280	27.62079	25.02904	29.34973	22.44316	19.59929
3813470.46	22.18835	22.66401	22.82457	22.66440	22.06227	23.57804	22.79441	20.42451	18.10718
3813395.46	18.54322	18.96790	19.26313	19.30253	19.02939	18.84790	20.75619	21.79056	16.39694
3813320.46	15.76179	16.10135	16.42292	16.60498	16.57562	16.35709	17.32430	15.98754	14.91966
3813245.46	13.61310	13.86364	14.15784	14.39858	14.49021	14.38645	14.15438	15.44439	13.33022
3813170.46	12.00082	12.12494	12.34282	12.57415	12.73774	12.74994	12.61929	12.73584	12.21628

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	1.83169	1.11997	1.21407	3.31055
3816020.46	5.02620	2.08819	4.61153	5.20881
3815945.46	6.87559	4.65800	5.61300	6.02711
3815870.46	7.26104	5.92625	6.46847	6.17820
3815795.46	7.64771	7.10636	7.12426	6.29204
3815720.46	7.80357	7.48635	6.84481	6.57059
3815645.46	7.89010	7.60723	7.08754	6.55573
3815570.46	8.04921	7.79844	7.43492	7.21324
3815495.46	8.55226	7.93088	7.52213	7.23538
3815420.46	9.19229	8.35707	7.88274	7.35561
3815345.46	9.87909	9.31708	8.51669	7.79184
3815270.46	11.54696	11.06821	9.47727	8.40117
3815195.46	9.48229	11.52580	11.16301	10.20816
3815120.46	2.48454	2.31765	3.30419	11.19739
3815045.46	1.67710	2.97127	11.16269	10.65808
3814970.46	2.05188	1.71521	2.54182	8.76014
3814895.46	9.46834	2.93034	5.95768	10.21719
3814820.46	17.57021	10.34755	6.97645	15.27293
3814745.46	20.06080	17.92883	17.20873	10.57739
3814670.46	20.61591	19.38180	17.69863	15.38964
3814595.46	22.59002	23.00096	21.24365	16.76934
3814520.46	20.91734	18.95370	18.83218	18.32382
3814445.46	25.86730	21.32769	17.25780	18.45253
3814370.46	25.12969	22.73711	17.74092	17.21538
3814295.46	26.04604	20.73746	18.46875	17.48812
3814220.46	27.92287	24.21247	19.30070	17.20800
3814145.46	44.48148	24.47920	23.62466	18.07854
3814070.46	32.58796	29.64618	24.88818	18.67449
3813995.46	25.91367	23.11220	22.23825	19.53193
3813920.46	24.94119	22.26847	20.05381	18.18177
3813845.46	23.92593	21.48337	19.36084	17.60729

3813770.46	25.26395	22.16510	18.64656	16.93223
3813695.46	21.36254	19.41370	17.61515	16.16646
3813620.46	19.68599	18.08455	16.65746	15.37703
3813545.46	18.19906	16.88961	15.68591	14.57629
3813470.46	16.69269	15.66507	14.68296	13.74794
3813395.46	15.24983	14.44831	13.66337	12.89841
3813320.46	13.90334	13.27337	12.64972	12.03223
3813245.46	12.68071	12.17002	11.67220	11.17941
3813170.46	11.58758	11.17216	10.76602	10.36332

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
350508.88	3814829.88	2.62333	350283.70	3815266.49	1.60191
350539.82	3814604.70	2.43722	350467.63	3814245.45	71.56542
350008.68	3813941.20	152.02392	350147.91	3813936.04	136.58296
350557.01	3814453.44	39.93514	349200.78	3815251.02	2.14636
349173.28	3815257.89	2.02349	348862.58	3814174.11	17.79138
348862.58	3815183.55	3.51256	350494.71	3815179.68	1.12477
350486.97	3814363.62	4.34583	350216.24	3814363.62	6.48450
350216.24	3814193.45	10.73886	349991.92	3813969.12	209.23901
349794.67	3813961.39	122.34904	349597.42	3814065.81	90.53009
349121.71	3814085.15	23.49357			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	74.98553	79.70425	85.60593	83.31166	63.11465	79.95311	83.52076	42.20917	85.56562
3816020.46	80.82226	76.58099	82.37432	83.17656	77.28073	70.73049	85.17080	85.89234	87.20101
3815945.46	82.10255	83.01599	77.25888	84.14282	85.49080	76.14718	78.90691	87.87078	87.44421
3815870.46	76.59768	84.38485	85.04268	79.55941	87.06304	96.94355	104.50547	85.36456	89.96169
3815795.46	84.40415	78.71924	86.65512	87.23998	83.35524	105.41543	128.20782	103.27869	91.30137
3815720.46	81.87250	86.81937	80.79409	88.38334	88.73510	88.07031	122.12828	131.62851	103.85132
3815645.46	74.10105	83.17769	89.14990	82.83167	90.91510	99.41365	96.29843	141.40702	131.63538
3815570.46	84.38319	89.37393	84.27952	90.91271	85.92793	152.81908	100.88979	95.02964	102.37608
3815495.46	87.71252	97.63260	79.58210	84.03654	94.38728	126.05338	96.61197	94.72539	97.23414
3815420.46	93.88176	110.86225	92.11298	83.88624	113.26562	107.05378	92.14092	98.18805	97.30393
3815345.46	115.62575	124.65488	93.07187	94.49341	141.07289	107.22211	99.26703	96.30216	101.97986
3815270.46	137.89005	139.89398	81.40301	94.11321	175.78360	129.75282	87.47986	100.88420	97.72338
3815195.46	178.56594	172.43975	108.23902	87.70503	198.99365	191.23093	126.02263	88.64512	102.84867
3815120.46	211.93109	181.61099	155.20974	104.76001	145.28390	310.58267	181.41895	108.41507	95.95198
3815045.46	229.50507	219.24942	189.92997	145.76228	162.21887	348.72091	305.48635	192.51450	109.48118

3814970.46	293.03731	201.26694	146.26649	122.65995	110.63955	331.28366	427.67776	218.90014	120.69209
3814895.46	138.28123	116.35480	92.89298	87.15543	123.16599	223.65907	631.44770	535.05848	262.23386
3814820.46	148.32408	170.45420	128.98050	159.78442	188.49567	192.27264	692.22548	691.72801	311.34889
3814745.46	313.36589	350.02819	214.18334	297.36259	312.24438	269.30150	664.79625	768.49905	739.75924
3814670.46	595.26350	597.04954	498.99470	433.21776	621.96873	683.68966	786.21392	827.58953	880.70769
3814595.46	627.31628	637.56189	605.94631	696.00548	730.94202	670.04448	700.55782	773.38807	886.47300
3814520.46	624.41720	611.76368	523.02042	507.83027	293.90709	314.25112	336.29445	361.44295	715.85399
3814445.46	627.00627	609.47842	545.80163	518.02746	298.72905	319.89342	342.82698	367.73467	748.07665
3814370.46	565.90939	663.39224	658.88618	599.31881	301.51058	322.93977	346.60577	372.75074	400.61024
3814295.46	180.31793	383.57006	657.09319	700.74874	714.84816	645.64198	349.41969	375.99862	405.83274
3814220.46	128.72535	299.75051	590.37258	504.22041	663.00241	780.31188	350.05578	378.60204	406.90716
3814145.46	163.10896	252.86894	158.89087	104.37965	143.23846	638.34429	758.22389	377.42856	407.72027
3814070.46	172.91206	78.62838	55.43677	58.79552	131.76110	670.69573	827.07423	890.44914	407.91391
3813995.46	67.32501	69.95099	75.92855	84.89282	112.42826	323.11643	412.92969	623.46919	852.62089
3813920.46	185.14602	134.43074	103.09824	104.13928	108.22082	185.69196	144.84774	216.68225	761.57953
3813845.46	477.06385	278.18742	93.19123	87.25355	89.66461	100.25180	109.97415	117.00617	269.83029
3813770.46	551.29012	537.27240	288.18073	104.42298	108.31877	108.14355	105.01148	100.38115	364.09011
3813695.46	566.84550	560.68589	199.69869	113.22274	157.29782	197.25546	411.90532	566.06063	722.77287
3813620.46	409.47542	407.28336	293.40113	151.27435	362.82412	635.69307	724.89679	786.38884	863.00538
3813545.46	412.40830	404.49314	153.12115	143.44870	418.58080	616.14480	486.09806	789.32636	742.03308
3813470.46	519.87513	180.49996	339.76495	285.87579	212.51562	138.18268	146.01469	622.39602	436.08417
3813395.46	552.07557	546.12686	624.96354	614.18709	589.21675	162.13029	121.08468	304.64879	141.98241
3813320.46	170.16717	183.09929	524.76065	590.98139	573.06984	451.36393	110.29035	96.44510	110.17668
3813245.46	411.52357	493.93340	583.16174	481.19259	106.07211	97.03450	97.71198	105.31221	98.67788
3813170.46	514.68498	505.17382	226.27034	101.67322	88.65372	116.75176	101.75956	91.05942	91.23548

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	85.60111	43.50616	87.93775	44.28123	44.58059	39.93140	42.99549	88.74503	91.04262
3816020.46	87.13134	44.20646	87.29678	45.57362	90.80732	44.03786	82.26940	93.03541	92.20932
3815945.46	89.07418	89.98355	91.52290	91.46343	92.95388	46.74460	77.18266	95.18109	95.16059
3815870.46	90.27204	92.32997	93.20173	92.12010	93.64448	94.72027	87.92091	94.62870	97.14692
3815795.46	93.15090	94.11789	95.16498	96.29674	96.90269	97.11913	96.24762	90.55419	99.16578
3815720.46	95.17436	93.58536	97.65121	98.48143	97.76104	99.57239	100.70610	86.01550	102.79743
3815645.46	90.94831	96.79191	98.94244	105.08045	101.39457	101.47575	102.56002	96.77828	102.56259
3815570.46	99.38032	97.15242	100.42345	107.21221	105.18641	102.80103	103.71812	103.21836	98.49391
3815495.46	97.68586	92.17785	102.31568	102.97998	106.27308	105.62709	104.58905	106.37539	52.74743
3815420.46	100.59115	104.33457	125.28907	106.67180	108.62570	108.64456	108.55627	109.35767	104.68177
3815345.46	98.40217	105.52574	177.47663	146.31410	108.26897	109.14980	110.60756	65.69809	68.74115
3815270.46	104.68006	101.46158	178.94446	220.85984	111.71137	112.55702	112.88388	70.97014	114.95750
3815195.46	103.46116	109.20913	200.67245	206.02223	167.33999	115.35282	116.11940	115.61047	119.86691
3815120.46	107.99521	171.34164	246.66870	185.50644	194.16573	114.69385	117.08244	121.98776	125.94928
3815045.46	127.97372	202.02138	227.55655	117.46259	161.55368	173.09224	124.69079	128.26765	150.19690

3814970.46 | 113.38663 318.08247 319.74495 246.76896 128.21507 125.39640 203.63887 171.30192 183.97350
3814895.46 | 190.42661 412.60805 237.57251 128.12347 125.59334 130.18531 249.10708 331.22913 147.53812
3814820.46 | 440.66449 697.48406 379.59119 201.85984 237.24193 241.18382 242.86737 408.73178 265.16027
3814745.46 | 778.63725 743.07630 234.03387 350.71403 276.41319 263.19882 422.32988 350.55892 177.71108
3814670.46 | 932.97075 772.84782 424.35741 563.65511 808.69214 610.53413 708.28552 401.58468 257.74064
3814595.46 | 897.53661 314.77807 515.37623 1138.95083 1199.91933 1085.28679 1213.45461 640.86484 383.28891
3814520.46 | 432.64952 490.90027 706.60940 1149.88587 593.39536 1332.75749 1443.95740 1327.77003 283.50363
3814445.46 | 977.11664 976.47600 1120.46772 1180.00663 617.20981 684.35862 1505.89741 553.97315 363.71017
3814370.46 | 434.76304 469.42252 506.47728 566.36842 626.99862 710.45434 818.28867 903.88496 790.90553
3814295.46 | 437.15720 470.04936 510.67096 560.40357 629.67092 701.43974 1469.12397 1669.98085 1096.67989
3814220.46 | 437.35660 471.97899 510.75214 557.88609 610.66629 668.32886 754.35648 930.52095 1883.26612
3814145.46 | 438.64794 471.82514 506.50016 548.63032 594.07329 649.61058 710.55729 805.61316 993.93815
3814070.46 | 436.02564 471.04596 509.06172 542.86093 582.21288 621.27327 679.98483 763.65619 868.02542
3813995.46 | 422.09586 470.28368 515.64652 530.17460 563.07358 609.22342 665.99904 718.17400 821.36638
3813920.46 | 425.01082 458.40499 491.41133 527.76656 544.66457 604.47467 650.91147 656.98601 772.59071
3813845.46 | 417.60089 437.33224 483.31278 538.72419 1176.43769 606.54888 643.34295 670.75296 721.88370
3813770.46 | 406.95237 543.53974 443.15722 704.80132 700.71418 622.39186 621.57500 665.33495 650.20102
3813695.46 | 907.51283 375.21300 55.83065 125.87925 615.10699 584.12194 634.70733 598.14240 473.58681
3813620.46 | 899.95277 299.83815 93.64717 108.42117 143.81652 342.83377 522.06681 458.46347 477.94943
3813545.46 | 562.41393 719.54394 284.42065 143.82334 615.61040 1033.63134 1040.22704 429.96055 1002.34339
3813470.46 | 170.37142 273.91013 338.64945 161.86244 191.61389 804.56493 691.56575 113.63432 391.54683
3813395.46 | 111.90678 113.94964 199.24115 158.13638 627.95466 469.91090 932.83052 1082.36628 262.68604
3813320.46 | 106.04750 96.58484 111.35924 235.46598 869.16862 702.41600 321.75740 377.60327 1016.37607
3813245.46 | 123.39496 177.45261 581.34436 589.35874 608.09042 634.52755 793.51842 390.30395 448.22598
3813170.46 | 105.52909 332.30268 686.30875 663.39996 782.22122 265.42695 319.77395 391.10576 380.49036

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	91.76780	91.48374	92.32975	91.76062	90.53597	93.54741	92.98434	102.57670	94.02501
3816020.46	94.30517	94.64134	94.78159	94.87213	105.44975	104.90466	95.54295	97.52242	144.02230
3815945.46	96.66711	97.19876	97.81775	97.83595	123.48916	141.07836	129.01724	117.86908	219.22658
3815870.46	98.68706	101.21173	120.49975	119.52348	142.14493	176.26176	212.72951	215.88748	275.00474
3815795.46	113.47101	107.46323	126.58677	133.57263	168.13595	232.81209	310.11347	423.41906	474.39120
3815720.46	109.24136	103.30917	104.13457	139.87873	180.57072	278.98529	254.83699	326.32591	563.56548
3815645.46	105.25273	105.11596	114.35856	152.61802	156.51591	174.28606	261.49050	403.92248	564.13810
3815570.46	105.59552	107.74302	114.15056	118.28264	135.33362	167.57172	152.05497	314.39315	389.51773
3815495.46	108.53984	109.08712	111.00466	110.64585	120.63386	132.99979	112.34083	113.08547	207.03174
3815420.46	109.41794	110.25692	111.60074	113.92617	115.85294	115.14367	114.54470	115.43813	114.37493
3815345.46	67.27752	71.49338	81.36357	115.55511	110.10993	115.63761	114.55159	117.00830	112.89719
3815270.46	66.70307	113.71449	87.21847	96.27830	75.16684	77.96295	77.77873	82.67726	71.43737
3815195.46	118.74836	119.53598	120.00300	123.56718	118.41055	83.52416	122.83888	119.94498	80.11602
3815120.46	126.95873	122.67036	88.15285	129.53699	127.41931	124.41083	128.20779	125.20620	87.80650
3815045.46	133.09472	121.51684	131.32356	132.71281	138.20064	133.84828	135.65398	130.04024	124.91452

3814970.46 | 134.70618 134.39378 144.98909 139.47710 148.89491
146.58055 143.19904 135.92244 103.53905
3814895.46 | 144.98992 148.52189 157.90315 149.36949 167.39111
177.31576 145.73927 114.54912 112.93361
3814820.46 | 152.21968 160.20587 167.55591 190.54368 199.96134
181.62177 147.91110 144.83608 142.48457
3814745.46 | 152.99564 167.78230 185.07575 227.92688 253.36221
206.29602 174.06916 168.41082 197.45554
3814670.46 | 318.50643 293.24267 233.31330 291.70149 345.61467
276.19772 217.15473 204.11570 313.92932
3814595.46 | 402.59883 689.20604 670.15947 414.45349 458.01156
327.80676 251.97860 259.02286 432.31175
3814520.46 | 268.02002 1018.79713 910.72085 1085.70372 445.87790
263.95619 254.07313 421.12546 502.20095
3814445.46 | 306.30263 1728.18902 2334.39762 1645.56744 571.62598
401.10790 449.86156 605.76880 485.87632
3814370.46 | 1141.70768 1436.23893 2593.78117 1007.75048 410.06701
567.00053 1046.90107 725.73072 510.55998
3814295.46 | 2097.53094 1552.70100 1686.25365 571.00703 0.00000
0.00000 0.00000 1034.27819 706.00302
3814220.46 | 1360.32881 1563.02835 858.91205 0.00000 0.00000
0.00000 0.00000 1277.51688 956.83183
3814145.46 | 1193.04892 1472.35826 2081.71520 0.00000 0.00000
0.00000 0.00000 2157.79616 1836.72929
3814070.46 | 1037.95943 1282.74175 1515.33850 2565.98632 0.00000
0.00000 0.00000 1160.03412 1853.58548
3813995.46 | 910.03599 1096.95932 1296.95791 1355.15022 1749.56085
2266.65253 2450.00300 1747.68603 2037.10681
3813920.46 | 865.74595 960.17006 876.81746 1239.77666 1366.78899
1318.93225 1581.05249 1277.91118 1343.65091
3813845.46 | 755.91799 658.14619 840.29686 1017.83099 1094.42310
1026.77575 1090.29894 1094.03853 1082.05627
3813770.46 | 531.73882 585.40380 812.06816 784.90276 880.41639
841.35866 898.72167 882.91622 1009.69709
3813695.46 | 470.35673 614.88127 710.49197 722.59801 709.96705
710.59342 739.70681 968.52895 832.75812
3813620.46 | 511.32374 668.06108 575.18705 653.60741 573.82320
610.44053 608.53532 626.93329 626.48492
3813545.46 | 1339.06992 639.05223 489.84881 594.94871 511.71736
533.85067 511.15046 564.79541 553.97121
3813470.46 | 598.63769 564.57327 512.50169 570.05635 478.18968
474.56489 434.44247 504.18303 495.13443
3813395.46 | 997.62039 466.90773 571.52915 551.73690 455.94990
430.14814 373.39929 447.66437 431.02584
3813320.46 | 474.77234 837.58483 720.59837 1106.86560 479.26124
424.66454 342.37812 396.91996 388.49368
3813245.46 | 378.73605 405.78871 486.49335 866.77699 841.24315
447.18114 312.96704 370.45065 376.28713
3813170.46 | 301.41912 362.03305 407.87252 370.31489 705.31513
1040.39467 315.19501 366.13403 358.49029

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	120.62719	87.95949	91.70516	165.00008	91.25392	123.38023	83.88310	89.76510	508.34681
3816020.46	177.57183	159.35094	139.39188	176.90375	221.57707	207.79819	129.06836	200.76190	325.44086
3815945.46	234.61234	258.27779	423.60287	542.74435	415.23657	509.19870	416.15031	564.95712	515.01897
3815870.46	336.01639	411.62854	626.95145	591.38378	610.10776	591.79111	543.90785	209.92003	555.20370
3815795.46	472.63652	564.31962	639.16632	575.03230	233.56059	464.31773	227.29573	221.74996	229.80115
3815720.46	665.56165	689.55598	677.82610	249.88569	243.02506	244.44885	236.59402	230.42798	255.15534
3815645.46	667.79166	709.16058	621.88946	267.92421	256.36812	254.64755	246.08491	233.72633	265.20647
3815570.46	294.95658	733.54961	739.33958	727.27637	279.16905	265.98249	261.69323	269.58631	280.24514
3815495.46	110.30226	295.25764	491.05794	199.69768	660.68066	592.67568	304.70749	313.13238	298.06103
3815420.46	113.67661	191.08804	257.90525	514.62726	764.37356	728.70771	352.80009	345.46112	301.03873
3815345.46	113.62426	112.91284	186.15616	314.83635	377.73904	509.90707	693.00844	487.06276	286.11699
3815270.46	119.43625	118.97874	144.53558	158.01919	230.73211	303.41435	615.50927	259.06600	716.76676
3815195.46	118.51344	120.68570	121.29536	200.18168	293.36739	329.63628	290.14557	204.80507	545.12555
3815120.46	121.87785	120.34438	164.19322	272.72967	338.49348	320.80891	238.18827	142.47300	247.65787
3815045.46	126.21544	130.81376	241.48868	336.88776	348.67287	275.21041	170.76526	179.54844	211.88744

3814970.46 | 130.95568 201.38050 322.20088 370.41203 314.88989
204.59614 186.42157 185.73453 240.15516
3814895.46 | 156.20250 292.98482 381.83535 355.22750 244.51230
226.57791 282.09460 245.54099 405.79324
3814820.46 | 250.05728 378.35814 392.79923 290.60448 282.00542
356.07328 431.44489 753.33873 909.76161
3814745.46 | 356.08441 422.42043 342.01980 198.31380 220.70333
204.39525 254.75340 188.77426 638.79778
3814670.46 | 437.27085 396.19089 245.54089 260.20771 205.33134
184.27312 250.43605 602.02199 653.17083
3814595.46 | 448.62405 302.94676 288.04522 342.52468 508.80597
317.76093 701.15050 1119.21052 1003.49526
3814520.46 | 373.55109 218.89179 334.66083 669.59856 758.78463
884.76065 726.52474 530.24259 457.18702
3814445.46 | 269.45270 356.39073 410.84005 413.88232 796.84832
1302.48994 647.11636 530.08780 1106.37285
3814370.46 | 495.29568 469.45476 905.91530 896.14841 414.86069
747.57358 1084.51938 802.05672 490.88244
3814295.46 | 564.11414 958.00182 1016.63259 1715.26007 1303.02638
888.22206 987.68030 908.38774 512.05584
3814220.46 | 492.78155 423.20673 1005.71187 939.41917 804.01959
710.68561 641.17904 402.44308 650.54195
3814145.46 | 541.59967 689.83964 548.97981 1724.51702 737.02146
594.07411 635.58742 551.46511 1069.40108
3814070.46 | 678.71839 506.50832 536.69643 882.65596 703.90481
566.49404 529.45859 492.40612 449.19105
3813995.46 | 1393.44299 1600.12061 592.75136 850.62399 650.14611
588.34628 493.55114 432.96007 419.18386
3813920.46 | 2111.66865 567.07443 561.08740 842.31498 749.70861
539.02287 484.93942 415.59816 378.13566
3813845.46 | 1866.91873 1504.97085 857.42933 1057.42159 1345.84662
640.01938 581.90042 451.22677 388.12424
3813770.46 | 953.98912 836.50860 804.04683 683.87232 650.17809
597.29596 1203.63733 1053.55182 405.54590
3813695.46 | 681.94118 666.36568 648.10758 552.31775 537.52675
578.25903 526.31859 449.99171 352.87290
3813620.46 | 595.68593 570.32505 569.40723 498.04700 481.53230
474.11600 478.07198 393.87267 328.31844
3813545.46 | 525.74436 504.27755 474.51306 450.87247 462.29005
410.13797 474.53083 366.61437 313.71333
3813470.46 | 477.95396 456.45037 433.47791 411.70201 389.25751
417.98267 399.30770 352.99509 306.36567
3813395.46 | 434.15909 413.20964 397.87506 378.28048 359.03918
350.13038 386.10446 393.57684 291.72335
3813320.46 | 395.50339 382.08093 366.72102 351.01744 335.46713
320.35960 339.62135 305.80750 279.16320
3813245.46 | 362.21429 350.37227 336.27604 326.20002 313.24099
298.70749 286.58477 314.36795 260.20352
3813170.46 | 327.30800 326.89033 314.96580 304.05124 293.12243
280.68488 268.61785 267.21042 251.03264

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	230.07165	147.38054	175.04541	422.01824
3816020.46	521.53731	320.27768	515.79143	406.05191
3815945.46	271.50789	530.49224	418.45788	257.15919
3815870.46	308.42892	494.26627	262.35418	244.88520
3815795.46	282.72329	274.77987	301.49359	222.79152
3815720.46	282.27210	282.88673	239.85634	200.88915
3815645.46	277.96202	262.98005	216.59644	184.86391
3815570.46	267.69175	237.45977	207.27060	191.30205
3815495.46	256.95870	215.70076	197.47222	183.74871
3815420.46	244.80993	217.80292	194.86996	188.85729
3815345.46	255.85262	225.63380	215.72306	205.87045
3815270.46	264.49274	266.85013	247.45875	219.98592
3815195.46	717.23084	604.08929	279.27204	257.85577
3815120.46	286.60435	238.58041	321.09262	568.94786
3815045.46	219.21208	336.13445	765.19906	732.61070
3814970.46	295.73665	259.11149	258.51015	613.34503
3814895.46	645.11647	289.50969	440.79265	651.38547
3814820.46	922.17240	638.05026	537.44324	785.75652
3814745.46	896.81882	412.76183	859.10420	631.51885
3814670.46	965.25390	921.94561	410.16704	342.12236
3814595.46	446.38437	791.53167	848.49202	373.34393
3814520.46	393.78402	359.94094	371.27420	440.32041
3814445.46	536.21260	393.44779	318.68678	342.27352
3814370.46	429.30443	401.20198	312.97138	315.75706
3814295.46	424.66730	338.97354	308.93707	305.38309
3814220.46	435.72615	390.13415	312.62859	284.87927
3814145.46	904.27024	376.25833	376.14470	290.25769
3814070.46	461.00028	433.06169	384.64440	293.87903
3813995.46	362.47065	335.35147	337.99645	304.09675
3813920.46	347.86506	320.05897	296.77510	274.37680
3813845.46	338.61348	311.48703	287.85459	268.33425

3813770.46	378.22694	336.59077	281.24775	261.60983
3813695.46	320.94243	297.63966	274.02402	256.07044
3813620.46	303.93598	284.37103	264.75472	249.40272
3813545.46	292.07351	270.39567	257.06617	241.73481
3813470.46	279.90917	262.74435	247.60286	228.66730
3813395.46	266.12431	252.21421	238.69521	225.69227
3813320.46	254.99380	241.27086	229.68054	217.56717
3813245.46	243.35488	231.05256	220.03163	209.48096
3813170.46	232.07725	221.53147	211.56421	202.20783

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
350508.88	3814829.88	297.81634	350283.70	3815266.49	126.74196
350539.82	3814604.70	277.96519	350467.63	3814245.45	854.86269
350008.68	3813941.20	1473.90155	350147.91	3813936.04	1283.44932
350557.01	3814453.44	1287.06119	349200.78	3815251.02	112.95592
349173.28	3815257.89	111.80288	348862.58	3814174.11	445.67301
348862.58	3815183.55	103.81006	350494.71	3815179.68	304.44838
350486.97	3814363.62	412.19403	350216.24	3814363.62	502.30697
350216.24	3814193.45	463.16665	349991.92	3813969.12	1877.72572
349794.67	3813961.39	1510.96710	349597.42	3814065.81	1272.30124
349121.71	3814085.15	570.63778			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	34.95110	41.85355	42.22866	40.07346	34.46961	36.00543	37.26144	35.39710	63.28436
3816020.46	40.50192	43.57214	43.22905	37.47267	36.80470	37.48409	39.53577	37.22832	58.19232
3815945.46	47.93314	44.63489	42.06129	37.22884	41.48879	42.11591	46.02518	38.67596	44.74699
3815870.46	54.49794	52.41021	47.64271	46.80928	44.25460	44.22312	52.96197	47.48223	47.73263
3815795.46	55.45166	58.34036	56.91159	51.93484	48.46337	53.45417	55.49728	55.74301	52.10046
3815720.46	54.17141	59.81108	59.18278	49.29414	44.36698	67.86730	58.44474	58.55774	58.95868
3815645.46	62.69980	60.81661	61.02461	53.21593	53.11878	75.63016	67.85031	64.41060	62.99601
3815570.46	59.14992	68.13498	64.06257	51.29244	58.62757	95.23901	79.66385	57.05058	51.40165
3815495.46	55.89936	81.62400	67.28532	46.86525	70.72924	88.88066	65.49798	49.91327	48.14572
3815420.46	77.11481	84.05369	68.09388	50.77997	86.59174	82.04506	63.48919	52.71709	60.86250
3815345.46	84.60598	90.55175	66.55826	51.09516	113.59905	85.32955	67.61347	77.92520	66.08260
3815270.46	117.80096	119.01839	73.84153	71.40629	135.64840	99.60656	72.70818	57.16207	49.86075
3815195.46	132.44292	122.90866	89.68561	77.44065	157.69544	152.61302	100.30664	65.99283	55.02443
3815120.46	165.13812	149.92801	97.86975	74.01867	122.96473	239.87795	136.16115	101.08482	68.21787
3815045.46	198.59895	179.52477	158.77220	103.70885	104.74463	324.57695	242.90699	170.33625	90.69231

3814970.46 | 214.12860 157.29381 105.44294 92.95070 99.11319 275.41572 377.56117 200.04235 106.32496
3814895.46 | 91.19005 77.26778 67.38000 74.80604 90.49796 187.50078 629.81683 513.32116 243.34018
3814820.46 | 97.24068 116.29896 80.72667 107.61599 128.82916 148.70739 610.67570 665.65677 256.55655
3814745.46 | 217.77948 306.33296 161.23711 241.71204 255.36775 206.26282 645.12916 705.32763 666.74689
3814670.46 | 432.36498 496.74339 419.48226 332.44638 486.34031 607.72014 732.43844 754.73669 815.82811
3814595.46 | 447.65781 458.56712 455.49657 530.00139 603.78762 599.33512 654.73889 655.53052 798.61186
3814520.46 | 451.44732 449.64282 421.19320 422.70152 293.30715 312.39392 332.99242 357.39467 643.03620
3814445.46 | 440.36487 439.72019 425.57334 423.59095 296.69086 316.39800 339.63063 365.76365 620.01018
3814370.46 | 422.54291 492.59861 534.46369 495.34448 300.36173 318.73297 338.31737 364.23902 394.48934
3814295.46 | 127.96795 294.60847 472.10554 538.40253 581.63006 561.36845 338.02136 368.11791 400.55758
3814220.46 | 79.26142 251.60928 446.16700 404.06917 494.14857 558.87242 315.18805 345.30455 375.98467
3814145.46 | 133.71057 205.57034 129.35941 82.74947 115.81212 486.37934 568.99948 353.19160 380.80311
3814070.46 | 152.87210 56.85575 36.32310 37.41009 102.83880 507.93587 596.77179 641.71995 382.95672
3813995.46 | 37.82335 28.03088 27.25480 34.24276 53.67581 233.50121 319.54818 466.26271 583.94691
3813920.46 | 86.09473 52.46263 32.04221 24.90520 32.96177 108.70734 77.99530 174.38788 544.29101
3813845.46 | 254.85981 155.35310 41.06198 21.82447 24.41022 27.50205 33.15372 62.91009 137.01086
3813770.46 | 390.35620 358.97381 184.94339 39.27930 44.35473 39.07120 44.69098 61.21485 170.88414
3813695.46 | 325.46395 229.44652 70.56333 58.01025 99.49915 90.94205 118.76699 158.43578 294.82148
3813620.46 | 226.28033 260.27205 139.47551 44.63437 81.82664 179.55629 192.23554 285.57484 402.02996
3813545.46 | 177.86915 79.44479 42.39674 45.30686 105.97141 212.83221 216.17136 366.87639 271.08000
3813470.46 | 102.98114 39.11633 85.57957 126.30789 98.82312 55.08622 49.99801 230.87063 149.92332
3813395.46 | 138.57180 170.58880 239.39136 214.24908 183.89476 64.60445 52.23714 126.46130 76.82191
3813320.46 | 132.50852 135.54678 225.45843 211.33988 179.56748 123.47432 40.42486 36.84359 45.76813
3813245.46 | 192.93570 164.95007 171.93260 117.34063 42.57682 39.49540 32.47923 20.87624 23.35771
3813170.46 | 162.58051 141.96312 54.50774 29.45573 30.78714 55.08586 24.82240 21.49672 26.56877

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	68.24781	35.97786	62.01930	34.46177	35.73353	32.32840	32.73892	50.25076	66.25319
3816020.46	68.94681	35.58904	66.46551	37.00209	42.17305	33.32887	42.71634	48.45254	64.27086
3815945.46	64.74537	74.94392	77.32044	64.41333	46.32751	38.36379	47.62365	52.46391	69.04678
3815870.46	57.55763	71.01345	71.29922	72.60768	52.41827	48.71263	49.53540	55.48224	66.38822
3815795.46	52.39302	68.75932	83.50007	83.00049	69.19135	54.00124	51.52641	52.18802	68.24523
3815720.46	52.34294	56.30992	78.04822	86.79983	79.63970	62.65691	56.72665	58.59119	68.04590
3815645.46	55.52437	53.85449	76.51085	88.26438	88.93574	72.79816	59.86275	58.09423	60.60910
3815570.46	53.83116	59.23765	62.71252	85.97169	94.02282	86.30543	54.75892	60.28996	56.29657
3815495.46	52.50995	54.47011	61.57198	85.05507	91.10725	93.26141	74.69530	58.10993	45.84572
3815420.46	50.67945	56.41524	70.58966	93.51453	88.38133	98.81285	93.96202	62.41806	56.99879
3815345.46	52.03671	59.50687	80.74602	90.79312	68.57575	91.48919	98.49678	53.43411	47.63808
3815270.46	63.93819	66.48114	80.02637	110.09367	74.58582	87.90919	99.73381	61.91213	65.19281
3815195.46	78.33471	83.63054	139.54905	92.70192	87.97744	73.35699	96.81386	104.06275	84.77171
3815120.46	87.64522	114.37589	165.39623	107.33698	87.78575	83.55643	86.80300	110.99668	110.97247
3815045.46	107.16511	168.69083	155.12080	89.25731	87.91701	89.59194	88.56357	113.28059	123.85038

3814970.46	102.16348	292.07582	242.86975	167.53885	105.26890	81.54571	104.28152	124.62757	129.21356
3814895.46	155.90568	341.99465	206.93935	114.74966	102.83997	103.64551	115.83120	192.45713	130.73788
3814820.46	416.92183	667.79212	321.71522	155.42928	215.91091	159.08940	167.88488	223.85527	140.65147
3814745.46	747.00112	716.94766	192.79933	296.33440	240.76741	242.47880	306.99802	252.24526	123.01200
3814670.46	856.85772	721.39131	352.57323	488.34022	758.18721	510.77871	624.90095	290.19164	149.59922
3814595.46	850.18977	239.19747	381.20096	1082.18492	1173.74188	1042.09630	1200.68713	581.05700	276.51155
3814520.46	297.00632	371.75284	623.68611	1084.08155	586.14756	1285.47609	1430.82606	1303.11484	257.82783
3814445.46	749.85691	822.41680	1020.14070	1135.81293	614.39598	682.72503	1417.85296	491.35261	296.23054
3814370.46	433.74211	464.87529	502.15803	562.36611	625.72789	705.48692	591.81352	722.75814	650.96722
3814295.46	434.12651	467.63061	509.80935	556.22376	619.82257	696.48470	1293.32628	1520.31186	826.79516
3814220.46	409.47489	447.79116	490.27197	541.00497	597.12366	660.03741	744.09247	923.53899	1822.06123
3814145.46	408.93388	439.12083	470.69506	509.00256	556.96048	619.65606	688.19430	791.17670	975.24011
3814070.46	402.56650	427.78924	464.11281	499.30661	520.83135	541.58251	625.30566	669.14315	722.08628
3813995.46	351.44122	396.45796	417.55732	407.92863	405.76738	449.10318	478.81693	527.18841	620.28095
3813920.46	302.62239	312.93030	346.78921	365.62356	377.43077	401.85785	451.76490	506.99284	566.52839
3813845.46	282.28091	290.24520	300.86789	366.84968	553.43808	448.78142	459.87194	464.70140	500.07900
3813770.46	254.86647	196.64640	204.86486	417.28488	422.07332	419.58583	393.83370	438.07237	378.20327
3813695.46	320.34346	233.73623	21.37720	47.31534	315.35274	380.90154	390.54214	326.18866	296.00779
3813620.46	419.95930	169.52734	46.06250	43.88414	76.58083	176.08772	268.55868	303.99930	290.15754
3813545.46	241.60624	267.24359	135.92922	72.53085	229.66112	248.70220	285.96112	73.48452	219.69043
3813470.46	88.06857	135.44051	161.57904	70.67410	80.96954	118.71688	103.40918	26.03273	131.11919
3813395.46	46.40466	38.80570	74.27503	70.11161	95.58820	63.99458	174.49926	255.65009	138.09331
3813320.46	24.99661	31.64433	47.39154	42.98408	115.30684	161.34939	184.71349	227.49253	604.14424
3813245.46	28.90564	62.63767	71.25323	43.72409	31.08789	67.41834	280.18967	238.06388	203.83841
3813170.46	38.41581	50.11854	46.13887	117.42384	76.09794	143.50905	186.47123	204.14536	169.69852

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	64.93170	71.60290	78.70423	68.78576	69.27213	84.33785	86.72186	86.38764	60.30447
3816020.46	70.68591	71.07526	80.34260	77.88709	73.63620	95.29026	88.81252	86.49086	104.63453
3815945.46	76.48842	79.72355	86.34779	83.00773	86.16689	101.30321	99.52273	89.10063	153.27227
3815870.46	74.18238	79.72686	97.84330	98.43630	113.24985	131.26606	163.65507	155.00697	194.61436
3815795.46	81.85000	89.47303	101.81737	107.06975	136.46478	192.07926	230.29897	339.17406	398.71055
3815720.46	86.54868	82.86326	88.20868	109.09711	146.50769	224.04315	200.76081	241.99247	524.32507
3815645.46	82.96288	86.39290	100.21256	114.99236	118.52665	132.30400	214.81134	314.44899	515.32277
3815570.46	75.73873	88.37600	98.88204	106.74427	93.32519	120.37487	124.46494	238.02218	266.76608
3815495.46	66.80882	83.40969	95.89714	98.01775	93.55184	112.59819	97.56354	95.95246	129.11704
3815420.46	57.29796	87.93772	91.33115	101.00126	95.03724	109.23987	97.54243	87.05983	88.30224
3815345.46	46.43255	56.23317	57.99987	106.51571	94.64552	110.18986	96.82286	82.78193	81.60354
3815270.46	52.18342	73.01180	67.08603	74.81356	64.41851	74.73085	68.77856	59.45072	57.64889
3815195.46	77.54137	77.85665	93.78484	107.17001	103.01156	80.56130	113.05207	83.62585	61.96931
3815120.46	84.58351	82.84043	77.19275	117.86712	112.80541	120.60812	122.65808	93.85943	70.07472
3815045.46	95.68628	97.55961	109.26227	121.57999	128.25286	130.44248	127.56250	109.35927	91.06843

3814970.46 | 119.54967 103.49022 116.32352 124.44208 140.34081
143.60306 131.43627 112.56556 89.10346
3814895.46 | 133.69478 108.55703 126.91899 138.85907 154.77386
157.37234 129.22624 95.63495 96.82288
3814820.46 | 137.82040 144.19656 149.86666 160.78570 173.11948
169.50967 127.16020 128.15763 114.06653
3814745.46 | 124.62666 158.96674 163.81934 184.09168 195.93776
188.22542 154.85428 147.61316 156.99322
3814670.46 | 161.96522 208.09846 195.62975 215.87322 290.82086
220.54004 196.95290 188.96175 189.85122
3814595.46 | 215.53222 469.70105 553.36413 383.33855 406.75869
263.10261 234.41698 219.93862 206.25757
3814520.46 | 213.89712 820.12245 765.05212 922.07566 369.35781
262.04601 245.00594 223.86582 214.59741
3814445.46 | 274.92522 1706.03090 2329.46717 1479.52067 494.21258
384.63548 313.94005 317.71691 229.96342
3814370.46 | 958.56665 1430.84324 2559.14173 642.77326 398.25968
500.22444 492.80086 364.76680 339.77239
3814295.46 | 2065.14402 1552.21450 1490.36580 473.21540 0.00000
0.00000 0.00000 502.34001 359.91110
3814220.46 | 1353.30742 1560.79941 622.00192 0.00000 0.00000
0.00000 0.00000 1213.79092 541.04564
3814145.46 | 1169.18531 1439.87658 2024.97620 0.00000 0.00000
0.00000 0.00000 2047.26481 1736.19751
3814070.46 | 867.84841 1070.65726 1321.96746 2430.47876 0.00000
0.00000 0.00000 915.50259 1839.28010
3813995.46 | 730.40606 872.57776 998.27217 1314.84451 1641.67406
2101.95786 2364.19251 1740.95363 2024.38772
3813920.46 | 612.24974 681.15604 782.18422 1004.77784 1087.35023
1136.39427 1411.09780 1272.18457 1338.83211
3813845.46 | 503.64147 524.00982 628.95381 738.87686 773.24315
795.40246 965.35272 1059.84519 1070.62798
3813770.46 | 379.59325 434.16256 589.66042 620.26010 580.16197
591.61438 718.36244 786.49239 1001.95298
3813695.46 | 324.69546 420.11257 446.76430 515.38418 453.16643
459.69060 576.53507 757.41923 801.23478
3813620.46 | 331.41097 429.00672 361.28579 390.57737 365.06264
369.06119 464.74572 552.22639 567.92644
3813545.46 | 853.74103 334.03333 359.24555 296.84200 301.30687
303.90038 396.03037 433.02027 432.28325
3813470.46 | 363.02429 320.68229 347.57717 247.61036 253.58028
255.33993 334.20464 376.47387 366.74529
3813395.46 | 361.43039 297.55239 332.31212 219.86636 216.85010
218.08849 283.35768 328.01280 340.52766
3813320.46 | 237.32456 534.12328 256.51724 213.36103 197.63765
188.82525 256.15032 285.39250 307.70488
3813245.46 | 188.58846 268.42395 201.20481 92.97085 129.63948
201.27272 234.67457 257.37908 274.22687
3813170.46 | 195.79723 204.82593 141.77004 186.28321 179.28499
142.36045 237.12448 246.77201 254.43130

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	81.42359	49.91611	60.19386	99.49351	62.31934	87.59322	55.26527	72.55412	459.50980
3816020.46	99.90211	132.49705	104.63284	107.06609	170.83229	184.77518	92.50340	156.70689	276.42609
3815945.46	150.01651	219.04678	363.81348	514.00412	387.13375	441.26817	351.40842	507.53636	488.41892
3815870.46	260.75945	358.65065	576.41153	560.53390	579.55058	539.85935	495.33353	202.04881	514.31613
3815795.46	458.04650	514.72542	597.46226	555.97028	209.71905	429.74551	212.75560	211.84086	201.95718
3815720.46	634.24264	619.31202	641.58779	231.97699	222.74228	221.67278	228.16534	222.66205	202.03132
3815645.46	607.04823	649.31099	590.94179	247.71361	241.06225	238.46651	236.04183	218.90484	184.58713
3815570.46	255.26142	694.04536	716.39963	666.28906	255.34772	257.03354	254.47756	218.91896	196.19131
3815495.46	92.49753	186.76056	447.60254	165.37996	627.53610	543.26388	258.28232	219.74108	213.70696
3815420.46	82.34963	138.72560	216.19816	450.02924	726.90647	676.29862	256.87923	235.51114	241.28068
3815345.46	73.01740	82.10033	138.49936	266.04216	335.06497	486.43889	667.92074	265.84958	255.94750
3815270.46	86.27787	93.57594	113.09399	115.67609	105.11698	141.55229	437.69861	132.93375	706.31828
3815195.46	100.18787	87.83720	115.18459	108.00191	94.71127	105.26268	110.31647	122.96544	499.22629
3815120.46	95.87002	96.21012	118.79133	108.65646	103.63476	107.67091	112.69362	101.39580	140.08837
3815045.46	84.33524	122.64186	120.23442	111.94794	117.46137	115.43032	101.46353	108.18724	111.44887

3814970.46 | 107.05999 128.70179 121.29452 122.97459 126.29156
109.81980 113.48592 114.98204 120.96526
3814895.46 | 124.41041 134.53725 127.94442 135.53128 131.81458
125.65069 126.85297 123.61259 275.75280
3814820.46 | 140.27224 142.46853 144.54392 139.36869 136.28455
192.24125 312.48604 712.25230 899.40281
3814745.46 | 142.78931 143.76413 138.77728 129.32154 136.39977
128.94571 125.29035 120.63235 578.55233
3814670.46 | 175.36845 155.22282 146.79979 155.08885 143.32981
133.13098 150.39114 242.43614 206.53634
3814595.46 | 187.97248 162.19040 173.33698 167.68422 193.00821
147.28876 233.10675 1115.55685 998.95706
3814520.46 | 190.37988 172.34465 190.53173 346.62004 713.41026
808.68954 471.84268 487.58126 417.60027
3814445.46 | 210.03466 188.21234 199.38531 187.70801 306.39664
1285.99970 555.00483 484.31000 1104.74065
3814370.46 | 230.49674 255.02065 391.14674 364.06852 197.31029
323.75476 1079.39858 760.48604 464.64757
3814295.46 | 268.14073 347.85319 889.50952 1710.68922 1293.89437
775.38114 961.19092 878.55317 493.90130
3814220.46 | 384.04304 295.44452 875.02263 911.91116 765.84411
670.46989 609.59170 312.42673 588.50900
3814145.46 | 338.34249 445.71484 321.60146 1723.93063 719.91882
584.24543 618.76937 535.30475 1068.29827
3814070.46 | 484.63266 461.65057 430.15319 863.76951 680.27697
549.23452 505.14873 472.64864 431.18439
3813995.46 | 1368.82946 1590.28239 427.50282 817.40003 637.19510
573.84702 476.46942 417.49342 406.46828
3813920.46 | 2110.28662 448.78424 432.73472 830.14015 716.64077
511.14776 456.91824 402.33668 367.13739
3813845.46 | 1864.02404 1503.91522 849.32315 1034.61133 1344.25974
628.62797 563.47012 423.11127 363.09493
3813770.46 | 941.08667 830.93743 795.47673 673.94042 640.41511
570.05662 1200.24236 1049.66422 390.77684
3813695.46 | 675.28104 656.68309 641.08515 545.60232 530.44418
570.34489 505.82723 426.35566 340.10549
3813620.46 | 586.14742 562.55501 563.28900 490.38677 473.45901
465.32662 469.38172 388.32595 308.97188
3813545.46 | 500.38214 499.68992 460.46800 447.97227 452.07561
398.94979 468.19435 356.62258 309.28857
3813470.46 | 423.00834 446.93916 422.77413 400.94494 383.09256
405.79451 387.12836 345.99213 295.42190
3813395.46 | 350.26792 389.51956 395.69243 372.05277 350.05820
346.73937 372.17460 382.24390 288.34846
3813320.46 | 286.66380 314.55427 354.13052 346.20227 324.99355
313.19336 338.46202 293.17743 272.10761
3813245.46 | 260.92360 291.32562 313.33283 320.87444 302.29423
289.14234 282.90575 311.99667 247.81972
3813170.46 | 241.39565 231.50150 258.89155 289.64137 289.41413
276.23612 258.71848 261.30451 247.99227

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 8TH-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	200.65066	109.34867	114.22319	391.33703
3816020.46	495.69332	214.13697	504.90555	375.35864
3815945.46	182.15537	505.01359	402.90425	144.07689
3815870.46	184.39007	479.86948	153.34656	158.15799
3815795.46	178.84041	168.15169	173.99421	167.65936
3815720.46	179.07296	174.41772	175.48979	167.50911
3815645.46	181.11504	185.57643	181.98079	154.23818
3815570.46	198.43425	200.52086	179.31479	155.17936
3815495.46	214.89105	193.67106	160.01911	157.56477
3815420.46	223.12801	175.01362	167.01003	162.18446
3815345.46	207.76604	193.29176	186.25897	186.03634
3815270.46	226.52407	231.67118	223.34201	194.00168
3815195.46	700.30770	588.45422	251.90077	233.87215
3815120.46	185.41113	175.06685	277.01514	557.39132
3815045.46	113.50256	222.62879	755.59253	722.70730
3814970.46	145.90999	122.26516	186.88902	600.78137
3814895.46	617.12945	205.80863	381.46795	644.60176
3814820.46	914.33009	614.70016	424.63490	772.08148
3814745.46	879.39483	337.91423	856.45496	609.20297
3814670.46	962.96723	906.95170	327.07896	302.55879
3814595.46	399.25239	778.01083	845.34159	306.01368
3814520.46	358.24503	335.13909	338.32903	321.12304
3814445.46	413.09652	353.20536	290.82716	312.47571
3814370.46	400.42203	377.03857	296.14298	302.22067
3814295.46	405.69425	325.85563	296.86642	286.90276
3814220.46	415.92564	373.31155	299.87044	271.85806
3814145.46	900.97737	359.03932	355.48394	274.00863
3814070.46	434.25632	399.83786	349.65344	268.49088
3813995.46	350.44313	324.10086	326.34434	288.61957
3813920.46	338.78718	305.55937	283.97942	266.20341
3813845.46	312.13773	294.68614	277.04856	257.74039

3813770.46	356.68373	317.68347	257.15973	240.28182
3813695.46	313.27952	287.24027	253.94572	233.65529
3813620.46	281.80907	273.55320	257.94329	239.74175
3813545.46	279.78585	252.83829	237.54590	233.17328
3813470.46	275.54127	258.24189	228.80700	216.44416
3813395.46	260.11415	246.15291	233.43979	215.70905
3813320.46	251.85332	232.07050	220.19358	212.25807
3813245.46	237.28697	226.21065	214.17216	201.61057
3813170.46	219.60524	214.63513	206.59351	198.26550

*** THE 8TH-HIGHEST MAX DAILY 1-HR AVERAGE CONCENTRATION VALUES
AVERAGED OVER 1 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 ,

*** DISCRETE CARTESIAN RECEPTOR
POINTS ***

** CONC OF NO2 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
350508.88	3814829.88	139.22929	350283.70	3815266.49	93.06801
350539.82	3814604.70	149.99463	350467.63	3814245.45	835.33962
350008.68	3813941.20	1457.74702	350147.91	3813936.04	1271.14817
350557.01	3814453.44	1278.08306	349200.78	3815251.02	72.13015
349173.28	3815257.89	67.54896	348862.58	3814174.11	419.52830
348862.58	3815183.55	87.42711	350494.71	3815179.68	99.66469
350486.97	3814363.62	222.92071	350216.24	3814363.62	241.52856
350216.24	3814193.45	335.60752	349991.92	3813969.12	1860.24699
349794.67	3813961.39	1281.87253	349597.42	3814065.81	1092.96954
349121.71	3814085.15	527.02970			

**MODELOPTs: RegDFAULT CONC   ELEV

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

** CONC OF NO2   IN MICROGRAMS/M**3 **

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

ALL       1ST HIGHEST VALUE IS     284.68437 AT (  350120.28,  3814070.46,
390.30,   520.00,    0.00)  GC  UCART1
          2ND HIGHEST VALUE IS     278.64942 AT (  349670.28,  3814370.46,
390.90,   524.00,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS     250.83424 AT (  349745.28,  3814070.46,
386.70,   524.00,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS     238.23000 AT (  349895.28,  3813995.46,
389.80,   520.00,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS     228.53067 AT (  350045.28,  3813995.46,
379.10,   524.00,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS     228.42282 AT (  349670.28,  3814145.46,
390.60,   524.00,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS     217.33593 AT (  349595.28,  3814295.46,
383.90,   524.00,    0.00)  GC  UCART1
          8TH HIGHEST VALUE IS     212.09088 AT (  349595.28,  3814370.46,
386.90,   524.00,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS     209.23901 AT (  349991.92,  3813969.12,
381.07,   520.00,    0.00)  DC
         10TH HIGHEST VALUE IS     206.56936 AT (  350120.28,  3814145.46,
397.10,   520.00,    0.00)  GC  UCART1

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

**MODELOPTs: RegDFAULT CONC   ELEV

*** THE SUMMARY OF MAXIMUM   1ST-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER   1 YEARS ***

** CONC OF NO2   IN MICROGRAMS/M**3 **

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

ALL       1ST HIGHEST VALUE IS    2593.78117 AT (  349670.28,  3814370.46,
390.90,   524.00,    0.00)  GC  UCART1
          2ND HIGHEST VALUE IS    2565.98632 AT (  349745.28,  3814070.46,
386.70,   524.00,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS    2450.00300 AT (  349970.28,  3813995.46,
394.70,   520.00,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS    2334.39762 AT (  349670.28,  3814445.46,
393.00,   524.00,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS    2266.65253 AT (  349895.28,  3813995.46,
389.80,   520.00,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS    2157.79616 AT (  350045.28,  3814145.46,
396.00,   520.00,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS    2111.66865 AT (  350195.28,  3813920.46,
392.00,   520.00,    0.00)  GC  UCART1
          8TH HIGHEST VALUE IS    2097.53094 AT (  349520.28,  3814295.46,
391.10,   524.00,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS    2081.71520 AT (  349670.28,  3814145.46,
390.60,   524.00,    0.00)  GC  UCART1
         10TH HIGHEST VALUE IS    2037.10681 AT (  350120.28,  3813995.46,
395.60,   520.00,    0.00)  GC  UCART1
```

**MODELOPTs: RegDFAULT CONC ELEV

*** THE SUMMARY OF MAXIMUM 8TH-HIGHEST MAX DAILY 1-HR RESULTS AVERAGED OVER 1 YEARS ***

** CONC OF NO2 IN MICROGRAMS/M**3 **

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

ALL       1ST HIGHEST VALUE IS    2559.14173 AT (  349670.28,  3814370.46,
390.90,   524.00,    0.00)  GC  UCART1
          2ND HIGHEST VALUE IS    2430.47876 AT (  349745.28,  3814070.46,
386.70,   524.00,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS    2364.19251 AT (  349970.28,  3813995.46,
394.70,   520.00,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS    2329.46717 AT (  349670.28,  3814445.46,
393.00,   524.00,    0.00)  GC  UCART1
          5TH HIGHEST VALUE IS    2110.28662 AT (  350195.28,  3813920.46,
392.00,   520.00,    0.00)  GC  UCART1
          6TH HIGHEST VALUE IS    2101.95786 AT (  349895.28,  3813995.46,
389.80,   520.00,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS    2065.14402 AT (  349520.28,  3814295.46,
391.10,   524.00,    0.00)  GC  UCART1
          8TH HIGHEST VALUE IS    2047.26481 AT (  350045.28,  3814145.46,
396.00,   520.00,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS    2024.97620 AT (  349670.28,  3814145.46,
390.60,   524.00,    0.00)  GC  UCART1
         10TH HIGHEST VALUE IS    2024.38772 AT (  350120.28,  3813995.46,
395.60,   520.00,    0.00)  GC  UCART1
```

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

**MODELOPTs: RegDFAULT CONC ELEV

*** 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 204 Informational Message(s)

A Total of 8760 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 204 Missing Hours Identified (2.33 Percent)

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

******** WARNING MESSAGES ********
CO W361 25 COCARD:Multiyear PERIOD/ANNUAL values for NO2/SO2 require MULTYEAR Opt
SO W320 43 VPARM:Input Parameter May Be Out-of-Range for Parameter QS
SO W320 44 VPARM:Input Parameter May Be Out-of-Range for Parameter QS

****
*** AERMOD Finishes Successfully ***
****

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.2.0
** Lakes Environmental Software Inc.
** Date: 6/5/2014
** File:
C:\AERMOD\LosValles\LosVallesNOx\LosVallesCO\LosVallesPM10\LosVallesPM10.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\AERMOD\LosValles\LosVallesNOx\LosVallesCO\LosVallesPM10\LosValles
   MODELOPT DFAULT CONC
   AVERTIME 24 PERIOD
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL LosVallesPM10.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     349887.570  3814179.790      385.830
** DESCRSRC Grading
   LOCATION VOL2         VOLUME     349370.560  3814249.570      383.120
** DESCRSRC Paving
   LOCATION VOL3         VOLUME     349694.090  3814627.020      410.120
** DESCRSRC Trenching
   LOCATION AREA1        AREA       349729.250  3814023.200      371.310
** DESCRSRC Grading
** Source Parameters **
   SRCPARAM VOL1             0.218     3.000    73.026     1.000
   SRCPARAM VOL2               0.0     3.000    67.126     1.000
   SRCPARAM VOL3               0.0     3.000    68.600     1.000
   SRCPARAM AREA1        2.4257E-06     3.000   316.240   314.170     0.000
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
```

```
   INCLUDED LosVallesPM10.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE met\burk6.sfc
   PROFFILE met\burk6.PFL
   SURFDATA 0 2005
   UAIRDATA 3190 2005
   SITEDATA 99999 2005
   PROFBASE 175.0 METERS
   STARTEND 2005 1 1 1 2005 12 31 24
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST LOSVALLESPM10.AD\24H1GALL.PLT 31
   PLOTFILE PERIOD ALL LOSVALLESPM10.AD\PE00GALL.PLT 32
   SUMMFILE LosVallesPM10.sum
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 SO W320      45  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS
 SO W320      46  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS

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

**MODELOPTs: RegDFAULT CONC   ELEV

*** 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 RURAL Dispersion Only.

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.

**Model Assumes No FLAGPOLE Receptor Heights.

**Model Calculates 1 Short Term Average(s) of: 24-HR
and Calculates PERIOD Averages

**This Run Includes: 4 Source(s);   1 Source Group(s); and   1619 Receptor(s)

**The Model Assumes A Pollutant Type of: PM_10

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

**Output Options Selected:
Model Outputs Tables of PERIOD 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) = 175.00 ; 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 = 3.7 MB of RAM.

**Detailed Error/Message File: LosVallesPM10.err
**File for Summary of Results: LosVallesPM10.sum

**MODELOPTs: RegDFAULT CONC ELEV

*** 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	EMISSION RATE SCALAR VARY BY
VOL1	0	0.21800E+00	349887.6	3814179.8	385.8	3.00	73.03	1.00	NO	
VOL2	0	0.00000E+00	349370.6	3814249.6	383.1	3.00	67.13	1.00	NO	
VOL3	0	0.00000E+00	349694.1	3814627.0	410.1	3.00	68.60	1.00	NO	

**MODELOPTs: RegDFAULT CONC ELEV

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
AREA1	0	0.24257E-05	349729.2	3814023.2	371.3	3.00	316.24	314.17	0.00	0.00	NO	

**MODELOPTs: RegDFAULT CONC ELEV

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , AREA1 ,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

348170.3, 348245.3, 348320.3, 348395.3, 348470.3, 348545.3,
348620.3, 348695.3, 348770.3, 348845.3,
348920.3, 348995.3, 349070.3, 349145.3, 349220.3, 349295.3,
349370.3, 349445.3, 349520.3, 349595.3,
349670.3, 349745.3, 349820.3, 349895.3, 349970.3, 350045.3,
350120.3, 350195.3, 350270.3, 350345.3,
350420.3, 350495.3, 350570.3, 350645.3, 350720.3, 350795.3,
350870.3, 350945.3, 351020.3, 351095.3,

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

3813170.5, 3813245.5, 3813320.5, 3813395.5, 3813470.5, 3813545.5,
3813620.5, 3813695.5, 3813770.5, 3813845.5,
3813920.5, 3813995.5, 3814070.5, 3814145.5, 3814220.5, 3814295.5,
3814370.5, 3814445.5, 3814520.5, 3814595.5,
3814670.5, 3814745.5, 3814820.5, 3814895.5, 3814970.5, 3815045.5,
3815120.5, 3815195.5, 3815270.5, 3815345.5,
3815420.5, 3815495.5, 3815570.5, 3815645.5, 3815720.5, 3815795.5,
3815870.5, 3815945.5, 3816020.5, 3816095.5,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	473.20	460.50	461.30	472.50	488.90	483.80	480.90	493.00	487.20
3816020.46	460.70	456.40	459.60	478.20	482.60	482.70	467.70	489.70	476.70
3815945.46	454.90	454.30	459.70	477.60	470.30	479.70	461.70	479.50	468.40
3815870.46	449.30	450.00	453.30	457.60	461.50	465.80	456.80	463.90	462.60
3815795.46	447.90	447.20	448.00	449.80	457.90	450.10	450.20	455.10	456.00
3815720.46	443.50	444.90	447.90	458.90	460.90	443.30	447.00	450.10	451.30
3815645.46	442.20	441.40	445.00	456.70	455.70	440.90	443.30	443.50	450.60
3815570.46	445.80	438.00	441.50	456.50	452.20	433.40	440.10	453.20	465.70
3815495.46	446.40	435.80	441.00	460.90	439.60	434.90	446.40	464.00	477.90
3815420.46	435.50	433.00	442.70	460.10	432.60	434.20	451.80	466.20	455.00
3815345.46	432.00	429.60	442.10	452.30	427.20	434.10	443.40	441.70	451.60
3815270.46	427.20	427.30	440.90	440.80	422.60	429.70	441.30	457.80	474.20
3815195.46	423.40	424.00	432.50	438.90	420.10	421.20	430.50	450.20	468.80
3815120.46	420.10	422.00	428.30	438.40	427.20	414.40	422.50	434.00	451.60
3815045.46	416.90	418.60	421.80	429.50	427.60	410.70	414.40	420.70	436.20
3814970.46	415.70	419.80	426.90	432.40	434.80	412.80	408.60	418.90	431.60
3814895.46	431.90	435.20	444.00	438.40	431.30	418.80	403.60	406.20	415.50
3814820.46	429.20	425.60	436.80	427.20	423.30	421.60	402.20	402.70	414.50

3814745.46	415.60	411.60	420.40	414.20	414.30	417.00	403.20	400.80	402.20
3814670.46	402.20	402.60	407.60	410.40	403.70	402.40	397.10	395.30	398.10
3814595.46	399.20	396.10	393.90	395.80	399.80	393.00	392.60	393.00	398.60
3814520.46	397.70	395.20	392.10	391.10	390.40	388.10	388.20	388.30	403.30
3814445.46	396.40	394.20	392.00	391.00	389.20	387.10	385.90	385.60	391.40
3814370.46	404.00	397.00	394.70	392.30	388.60	387.90	386.20	384.00	383.20
3814295.46	422.40	410.90	401.90	394.90	394.00	391.70	387.00	384.50	382.90
3814220.46	430.30	413.50	404.10	406.70	403.00	400.10	390.40	386.10	382.60
3814145.46	419.10	413.30	419.50	427.40	420.90	402.90	393.80	386.50	384.20
3814070.46	418.60	432.90	452.10	446.80	424.20	403.10	395.20	396.40	386.50
3813995.46	437.90	454.80	469.40	447.60	431.20	411.40	408.70	404.50	393.10
3813920.46	421.60	429.20	436.50	467.70	439.20	419.80	423.60	415.40	402.00
3813845.46	406.90	412.90	432.60	456.50	447.60	446.90	436.80	428.00	413.20
3813770.46	402.70	404.70	413.90	434.30	429.90	433.20	429.60	425.20	409.90
3813695.46	396.10	402.30	416.70	423.90	417.90	415.80	409.20	406.40	392.80
3813620.46	393.70	396.60	409.10	420.60	411.40	403.50	398.80	394.50	395.90
3813545.46	394.30	408.10	423.50	425.00	409.80	403.70	407.10	397.80	401.70
3813470.46	404.30	421.70	412.10	412.50	415.10	420.70	419.90	403.60	408.30
3813395.46	398.10	404.00	397.20	400.40	403.90	419.00	422.90	411.50	420.80
3813320.46	386.70	390.40	393.30	395.10	403.90	407.80	424.70	429.30	427.30
3813245.46	391.80	393.50	399.40	406.80	423.60	427.90	435.80	447.70	442.10
3813170.46	400.50	405.00	415.00	425.60	429.50	423.60	442.20	446.30	429.20

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	487.70	509.30	487.20	504.50	495.50	509.20	498.40	475.30	487.10
3816020.46	487.40	501.20	479.60	494.80	483.50	496.40	476.20	467.40	483.20
3815945.46	474.90	478.50	470.60	490.40	471.80	494.00	475.10	459.60	473.90
3815870.46	465.10	467.50	468.80	469.10	464.00	471.50	470.20	455.20	449.70
3815795.46	458.40	464.00	458.80	458.10	458.00	461.60	463.80	462.60	449.70
3815720.46	456.70	457.50	449.80	452.30	454.10	455.60	458.30	456.70	447.00
3815645.46	456.00	461.00	450.70	447.60	450.10	452.20	459.00	462.70	457.70
3815570.46	465.80	464.80	452.30	442.90	447.60	458.10	477.00	483.20	475.50
3815495.46	479.80	467.10	459.70	440.30	449.90	464.30	473.40	475.70	499.20
3815420.46	475.80	467.70	448.20	435.70	443.10	450.00	461.70	471.00	485.90
3815345.46	469.90	462.00	441.20	436.80	457.20	476.30	475.40	503.50	504.10
3815270.46	457.90	453.10	439.50	430.90	453.90	458.70	472.00	500.70	479.80
3815195.46	446.30	441.80	424.60	435.80	443.50	457.00	471.90	487.10	464.70
3815120.46	435.20	429.10	423.50	431.20	442.10	460.80	474.00	463.90	450.50
3815045.46	430.40	420.90	423.40	444.90	443.70	448.80	454.70	447.10	438.80
3814970.46	433.00	412.60	414.50	422.10	435.40	457.90	442.40	432.40	433.10
3814895.46	422.50	410.20	417.90	430.00	441.50	444.90	432.60	421.40	441.10
3814820.46	408.20	403.40	411.60	421.90	418.40	423.30	424.20	417.80	428.30

3814745.46	|	401.70	402.80	419.90	412.50	415.60	416.60	412.60	417.10	449.50
3814670.46	|	397.40	402.40	410.70	406.70	402.70	406.10	404.40	413.90	432.00
3814595.46	|	398.90	415.30	408.70	395.70	394.00	399.40	398.30	405.20	415.20
3814520.46	|	412.60	409.40	404.40	393.80	387.40	395.60	394.30	397.90	416.00
3814445.46	|	394.70	392.90	396.10	396.30	385.10	387.30	394.30	407.00	414.30
3814370.46	|	383.60	380.70	378.60	381.30	381.90	389.20	404.80	402.90	404.10
3814295.46	|	381.10	378.90	378.00	377.60	379.10	379.10	391.60	391.90	401.40
3814220.46	|	380.20	378.60	377.00	376.10	375.10	373.80	374.50	380.40	391.20
3814145.46	|	381.10	378.60	376.10	374.60	372.70	371.40	369.70	370.00	375.10
3814070.46	|	380.20	379.00	378.00	374.60	372.10	369.70	368.20	367.00	366.80
3813995.46	|	386.60	387.20	382.20	374.00	371.10	369.00	367.70	366.60	365.10
3813920.46	|	389.50	380.00	378.20	375.80	372.90	371.40	369.20	365.70	365.00
3813845.46	|	388.30	383.50	383.00	389.80	393.00	387.70	372.90	369.00	366.00
3813770.46	|	385.80	407.60	409.30	403.60	403.70	386.20	373.70	372.50	369.10
3813695.46	|	398.00	409.10	437.20	423.30	404.70	386.20	384.50	377.60	370.40
3813620.46	|	396.40	411.00	425.80	430.70	420.10	409.40	384.80	386.50	381.40
3813545.46	|	405.70	402.90	411.80	420.20	404.90	394.00	396.60	409.90	400.30
3813470.46	|	418.00	411.90	409.90	419.10	413.60	401.50	404.90	426.70	408.00
3813395.46	|	427.80	431.90	414.90	415.60	404.40	409.50	393.90	397.50	410.90
3813320.46	|	440.90	429.00	421.20	416.20	396.90	391.90	386.50	385.60	395.40
3813245.46	|	423.40	413.80	403.20	406.40	403.80	404.00	391.50	378.70	387.90
3813170.46	|	419.60	410.80	402.60	394.00	397.40	388.90	383.70	380.00	376.00

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	480.80	484.10	464.80	456.50	458.10	459.40	457.40	435.00	446.90
3816020.46	460.80	461.90	462.90	447.80	442.20	436.30	449.80	436.40	427.80
3815945.46	453.30	443.60	447.80	441.40	434.50	428.90	427.00	432.00	420.70
3815870.46	452.10	440.50	435.80	431.60	427.50	423.70	419.50	420.20	417.50
3815795.46	441.20	438.00	434.20	429.20	423.80	418.20	414.50	410.40	408.40
3815720.46	444.60	452.50	448.30	428.30	422.40	415.80	417.00	414.50	405.20
3815645.46	450.30	459.60	436.90	427.30	427.10	424.80	416.60	411.50	406.10
3815570.46	456.60	459.20	439.60	438.60	436.00	426.00	424.90	415.00	413.00
3815495.46	470.00	468.20	450.50	466.60	443.80	432.40	442.00	433.70	424.00
3815420.46	485.80	486.80	482.20	458.10	449.10	449.60	458.50	440.80	438.50
3815345.46	518.10	506.80	505.40	477.20	472.70	477.40	486.10	458.50	464.40
3815270.46	498.00	488.80	497.60	493.90	510.40	497.60	496.10	492.80	497.50
3815195.46	468.40	483.80	486.10	471.20	483.30	491.50	472.30	479.60	510.80
3815120.46	456.50	471.50	494.50	461.60	467.40	484.90	463.10	478.30	499.50
3815045.46	449.10	467.80	470.10	468.20	449.80	467.10	455.00	476.30	490.00
3814970.46	464.40	468.80	447.60	465.40	446.30	449.20	454.00	467.40	499.10
3814895.46	450.50	449.70	436.50	458.90	441.30	437.30	466.60	504.50	513.10
3814820.46	451.10	442.20	428.20	441.00	432.60	441.40	475.50	488.70	481.30

3814745.46	|	461.30	449.00	426.80	431.60	423.20	437.30	452.70	457.70	455.40
3814670.46	|	430.40	420.40	424.30	419.60	415.60	423.00	430.00	437.40	442.80
3814595.46	|	419.60	407.70	406.00	410.10	410.10	418.70	425.50	431.40	441.80
3814520.46	|	420.90	401.90	402.40	400.80	411.80	440.00	442.30	451.30	450.00
3814445.46	|	415.90	396.50	393.00	397.70	407.60	418.40	432.50	426.30	452.40
3814370.46	|	400.50	386.90	390.90	404.40	426.50	415.70	412.00	426.90	421.60
3814295.46	|	391.10	383.90	397.40	417.30	408.00	391.70	412.90	414.40	426.10
3814220.46	|	386.90	381.00	404.40	418.40	405.40	386.80	411.50	400.20	419.60
3814145.46	|	376.60	378.10	390.60	400.90	386.20	392.30	414.80	396.00	397.10
3814070.46	|	369.60	373.60	372.40	386.70	376.60	381.90	402.40	401.40	390.30
3813995.46	|	365.10	364.70	365.20	365.80	367.70	389.80	394.70	379.10	395.60
3813920.46	|	364.00	363.10	362.10	360.40	362.10	369.60	378.60	370.90	380.20
3813845.46	|	363.60	360.80	359.60	358.10	357.00	362.20	363.50	371.50	375.60
3813770.46	|	363.60	360.10	357.70	356.20	355.10	357.00	359.00	363.00	379.20
3813695.46	|	364.10	361.10	357.60	355.10	354.00	354.60	355.30	382.30	375.00
3813620.46	|	374.60	370.30	357.70	355.10	352.70	351.10	352.70	354.70	353.50
3813545.46	|	393.50	374.30	362.40	359.70	353.70	349.70	349.50	348.60	348.60
3813470.46	|	389.40	378.60	368.10	368.20	358.90	350.10	347.60	346.10	346.10
3813395.46	|	400.00	386.40	386.00	377.00	363.40	352.50	349.20	347.40	344.60
3813320.46	|	389.80	391.60	403.30	393.10	377.50	364.10	360.30	349.80	343.00
3813245.46	|	377.40	381.30	381.90	400.40	396.20	382.20	366.00	359.00	352.60
3813170.46	|	377.30	368.10	370.20	384.20	392.00	396.90	381.90	369.20	356.30

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	435.70	453.50	453.60	426.90	443.30	434.90	459.60	441.80	402.90
3816020.46	426.70	424.60	426.40	425.80	419.00	418.80	428.70	420.40	413.40
3815945.46	420.70	416.40	409.40	404.10	409.00	405.20	409.50	397.50	404.20
3815870.46	413.70	409.80	400.50	395.40	400.90	398.10	404.00	388.00	396.50
3815795.46	407.40	404.50	401.00	393.70	390.50	391.60	389.00	384.70	381.70
3815720.46	401.50	399.80	396.60	390.40	386.20	385.20	390.40	380.00	377.70
3815645.46	402.30	395.70	393.10	388.20	383.90	378.70	376.80	371.70	369.30
3815570.46	414.50	400.30	395.90	395.90	386.30	378.40	380.40	372.20	366.50
3815495.46	435.70	417.20	407.90	420.20	402.90	392.00	385.20	376.80	370.50
3815420.46	451.10	424.10	417.60	407.90	400.10	394.20	386.10	380.40	374.20
3815345.46	471.30	449.50	425.00	414.10	411.90	406.70	393.00	389.80	377.40
3815270.46	461.80	443.30	429.10	432.70	446.80	425.50	408.30	424.60	401.40
3815195.46	490.70	464.90	452.50	458.40	482.80	464.90	450.30	425.10	407.00
3815120.46	476.70	481.40	478.70	468.50	462.70	478.20	464.90	442.60	423.40
3815045.46	481.70	459.00	459.80	468.90	446.30	477.00	471.20	441.60	437.20
3814970.46	472.20	474.20	444.10	459.20	434.40	458.50	442.60	449.50	423.20
3814895.46	481.00	458.50	456.60	435.20	429.70	434.30	427.50	425.90	414.20
3814820.46	474.20	455.80	441.90	438.40	426.80	419.40	412.00	403.50	399.40

3814745.46	471.60	468.30	476.20	469.10	450.30	443.40	432.20	433.10	405.60
3814670.46	445.90	466.20	455.80	441.40	445.40	449.10	423.70	415.40	418.60
3814595.46	449.70	460.30	439.60	426.30	420.00	439.90	417.50	394.70	398.60
3814520.46	454.20	461.40	429.60	411.80	404.10	403.00	409.00	385.50	374.60
3814445.46	453.50	456.80	438.00	425.80	414.80	396.90	388.40	380.60	395.10
3814370.46	451.80	421.50	411.00	411.80	428.80	415.70	399.50	403.80	380.80
3814295.46	440.40	417.20	402.50	393.70	398.20	403.40	401.00	401.80	381.70
3814220.46	423.80	427.40	402.60	387.80	382.00	382.20	386.50	413.60	406.70
3814145.46	420.20	409.90	414.50	394.40	375.10	366.90	385.40	378.20	398.50
3814070.46	409.50	410.40	410.00	379.70	371.70	361.30	365.30	368.30	368.70
3813995.46	387.70	397.20	410.40	379.80	367.80	367.50	358.40	350.50	360.10
3813920.46	392.00	408.60	409.10	388.50	389.10	362.60	360.10	346.20	338.50
3813845.46	394.80	397.20	380.50	401.00	396.90	384.10	389.10	364.60	357.60
3813770.46	381.20	377.50	382.60	375.80	379.70	381.50	395.60	392.70	364.90
3813695.46	361.80	367.20	370.80	362.70	367.80	387.30	382.60	372.80	349.10
3813620.46	355.30	359.10	366.30	358.30	362.70	368.00	375.70	362.30	336.90
3813545.46	348.60	349.90	349.60	353.10	364.90	357.80	383.40	358.90	332.50
3813470.46	346.10	345.30	344.40	347.10	347.10	366.60	367.70	360.10	345.20
3813395.46	344.70	342.90	341.60	341.60	341.30	350.00	369.90	380.70	344.30
3813320.46	343.00	340.70	339.20	339.10	339.90	341.90	361.40	353.50	345.30
3813245.46	342.20	339.60	338.10	338.00	338.00	336.90	337.90	363.60	337.20
3813170.46	346.10	341.50	338.20	336.70	336.90	335.70	334.10	347.00	340.90

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	418.40	427.80	424.70	407.00
3816020.46	399.80	416.10	400.50	392.70
3815945.46	390.40	402.30	392.80	375.90
3815870.46	388.50	394.20	374.20	371.90
3815795.46	384.40	376.00	385.30	366.70
3815720.46	376.80	376.10	366.90	365.90
3815645.46	369.60	369.90	364.20	356.80
3815570.46	363.80	365.10	363.60	365.00
3815495.46	364.50	358.80	356.60	356.80
3815420.46	366.70	358.30	355.50	350.20
3815345.46	368.50	366.60	359.50	351.40
3815270.46	382.90	386.40	367.50	355.60
3815195.46	401.50	392.00	387.50	377.40
3815120.46	418.80	419.20	414.10	391.90
3815045.46	425.90	416.10	398.80	399.40
3814970.46	422.80	425.70	419.20	404.50
3814895.46	404.80	418.20	409.90	403.50
3814820.46	396.00	404.80	409.00	395.30
3814745.46	393.60	385.40	396.60	404.80
3814670.46	397.50	397.60	385.60	375.40
3814595.46	386.20	391.80	393.80	379.30
3814520.46	366.80	365.90	375.80	387.60
3814445.46	389.80	372.30	356.30	376.90
3814370.46	372.10	372.50	350.00	361.10
3814295.46	369.20	350.60	346.20	356.10
3814220.46	370.90	367.50	345.80	338.50
3814145.46	391.50	364.20	372.50	346.10
3814070.46	380.70	386.70	375.80	349.00
3813995.46	348.70	348.50	361.30	356.40
3813920.46	338.30	335.60	335.70	336.40
3813845.46	339.20	335.40	327.20	326.70
3813770.46	364.90	359.80	335.40	323.40
3813695.46	342.50	338.10	322.60	320.10
3813620.46	327.30	320.20	318.70	318.10
3813545.46	325.30	319.10	318.00	318.00
3813470.46	320.20	317.20	317.00	317.00
3813395.46	319.60	317.60	317.00	317.00

3813320.46	319.60	318.10	317.00	316.00
3813245.46	319.60	316.20	316.00	316.00
3813170.46	320.00	316.00	316.00	315.90

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	760.00	760.00	760.00	760.00	609.00	609.00	609.00	609.00	609.00
3816020.46	760.00	760.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00
3815945.46	760.00	760.00	760.00	609.00	700.00	609.00	700.00	609.00	609.00
3815870.46	760.00	760.00	760.00	700.00	700.00	609.00	700.00	609.00	609.00
3815795.46	760.00	760.00	760.00	760.00	700.00	700.00	700.00	609.00	609.00
3815720.46	760.00	760.00	760.00	609.00	609.00	700.00	609.00	609.00	609.00
3815645.46	760.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00	609.00
3815570.46	700.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00	609.00
3815495.46	496.00	700.00	609.00	463.00	609.00	609.00	609.00	585.00	482.00
3815420.46	700.00	700.00	574.00	465.00	609.00	609.00	609.00	482.00	609.00
3815345.46	496.00	609.00	482.00	465.00	609.00	609.00	609.00	609.00	585.00
3815270.46	496.00	574.00	482.00	481.00	609.00	609.00	585.00	481.00	481.00
3815195.46	496.00	496.00	482.00	481.00	609.00	609.00	609.00	481.00	481.00
3815120.46	496.00	496.00	482.00	481.00	482.00	609.00	609.00	524.00	481.00
3815045.46	496.00	495.00	482.00	481.00	481.00	609.00	609.00	585.00	524.00
3814970.46	495.00	481.00	481.00	481.00	481.00	574.00	609.00	574.00	524.00
3814895.46	452.00	452.00	452.00	452.00	481.00	481.00	585.00	585.00	524.00
3814820.46	452.00	452.00	452.00	452.00	481.00	481.00	574.00	574.00	524.00

3814745.46	452.00	452.00	452.00	481.00	481.00	481.00	524.00	524.00	524.00
3814670.46	524.00	475.00	475.00	481.00	481.00	524.00	524.00	524.00	524.00
3814595.46	527.00	524.00	481.00	481.00	481.00	524.00	524.00	524.00	524.00
3814520.46	527.00	524.00	481.00	481.00	481.00	524.00	524.00	524.00	524.00
3814445.46	527.00	524.00	517.00	481.00	481.00	524.00	524.00	524.00	524.00
3814370.46	524.00	524.00	475.00	475.00	481.00	481.00	524.00	524.00	524.00
3814295.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	524.00	524.00
3814220.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	524.00
3814145.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3814070.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813995.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813920.46	475.00	475.00	475.00	473.00	475.00	475.00	475.00	475.00	475.00
3813845.46	475.00	475.00	475.00	475.00	475.00	473.00	475.00	475.00	475.00
3813770.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813695.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813620.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813545.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813470.46	475.00	473.00	475.00	475.00	475.00	473.00	464.00	475.00	473.00
3813395.46	475.00	475.00	475.00	475.00	475.00	464.00	464.00	464.00	464.00
3813320.46	504.00	504.00	504.00	504.00	504.00	504.00	464.00	464.00	464.00
3813245.46	504.00	504.00	504.00	504.00	464.00	464.00	464.00	464.00	464.00
3813170.46	504.00	504.00	504.00	464.00	464.00	504.00	464.00	464.00	504.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	585.00	524.00	585.00
3815495.46	479.80	609.00	609.00	609.00	609.00	609.00	585.00	524.00	524.00
3815420.46	480.00	574.00	609.00	609.00	609.00	609.00	585.00	524.00	524.00
3815345.46	481.00	524.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00
3815270.46	481.00	574.00	609.00	609.00	574.00	524.00	524.00	524.00	524.00
3815195.46	524.00	585.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00
3815120.46	585.00	609.00	609.00	609.00	524.00	524.00	524.00	524.00	524.00
3815045.46	524.00	609.00	609.00	524.00	524.00	524.00	524.00	524.00	524.00
3814970.46	524.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00	524.00
3814895.46	524.00	585.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814820.46	524.00	585.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00

3814745.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814670.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814595.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814520.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814445.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814370.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814295.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814220.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814145.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814070.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3813995.46	475.00	475.00	475.00	524.00	524.00	524.00	524.00	524.00
3813920.46	475.00	475.00	475.00	524.00	524.00	524.00	524.00	524.00
3813845.46	475.00	475.00	475.00	475.00	473.00	441.00	524.00	524.00
3813770.46	475.00	475.00	441.00	441.00	441.00	447.00	520.00	520.00
3813695.46	475.00	473.00	439.00	441.00	441.00	464.00	447.00	520.00
3813620.46	475.00	464.00	441.00	441.00	441.00	441.00	464.00	443.00
3813545.46	473.00	473.00	464.00	441.00	464.00	464.00	443.00	432.00
3813470.46	464.00	464.00	464.00	443.00	443.00	464.00	441.00	432.00
3813395.46	464.00	464.00	464.00	464.00	464.00	432.00	504.00	441.00
3813320.46	464.00	464.00	464.00	464.00	504.00	504.00	504.00	504.00
3813245.46	504.00	504.00	504.00	504.00	504.00	504.00	504.00	504.00
3813170.46	504.00	504.00	504.00	504.00	504.00	504.00	504.00	504.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815495.46	524.00	524.00	609.00	524.00	609.00	609.00	609.00	609.00	609.00
3815420.46	524.00	524.00	524.00	524.00	585.00	557.00	524.00	557.00	557.00
3815345.46	524.00	524.00	524.00	524.00	524.00	524.00	519.00	524.00	524.00
3815270.46	524.00	524.00	524.00	524.00	513.00	513.00	516.00	516.00	516.00
3815195.46	524.00	524.00	524.00	524.00	524.00	519.00	524.00	520.00	516.00
3815120.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00	516.00
3815045.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3814970.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3814895.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814820.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00

3814745.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814670.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00
3814595.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00
3814520.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814445.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814370.46	524.00	524.00	524.00	524.00	520.00	524.00	524.00	520.00
3814295.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814220.46	524.00	524.00	524.00	520.00	524.00	520.00	524.00	520.00
3814145.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814070.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3813995.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00
3813920.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00
3813845.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3813770.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3813695.46	520.00	520.00	524.00	524.00	524.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813545.46	432.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813470.46	432.00	441.00	520.00	520.00	520.00	520.00	520.00	520.00
3813395.46	432.00	432.00	432.00	432.00	520.00	520.00	520.00	520.00
3813320.46	504.00	432.00	403.30	405.00	432.00	504.00	520.00	520.00
3813245.46	504.00	504.00	504.00	405.00	405.00	405.00	482.00	482.00
3813170.46	504.00	504.00	504.00	504.00	405.00	405.00	405.00	409.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	579.00	579.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815495.46	579.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815420.46	524.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815345.46	520.00	524.00	534.00	579.00	579.00	579.00	609.00	579.00	609.00
3815270.46	520.00	524.00	524.00	524.00	520.00	520.00	552.00	520.00	552.00
3815195.46	516.00	520.00	520.00	520.00	487.00	520.00	520.00	520.00	520.00
3815120.46	520.00	520.00	520.00	520.00	520.00	485.00	487.00	520.00	520.00
3815045.46	520.00	520.00	520.00	520.00	520.00	485.00	485.00	520.00	520.00
3814970.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814895.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814820.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

3814745.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814670.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814595.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814520.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3814445.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814370.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814295.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814220.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814145.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3814070.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3813995.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813920.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813845.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813770.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813695.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813545.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813470.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813395.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813320.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813245.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813170.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	609.00	579.00	579.00	579.00
3816020.46	609.00	579.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00
3815495.46	609.00	609.00	609.00	609.00
3815420.46	609.00	609.00	609.00	609.00
3815345.46	609.00	609.00	609.00	609.00
3815270.46	579.00	579.00	579.00	609.00
3815195.46	534.00	534.00	534.00	552.00
3815120.46	520.00	520.00	520.00	520.00
3815045.46	520.00	520.00	520.00	520.00
3814970.46	520.00	520.00	520.00	520.00
3814895.46	520.00	520.00	520.00	520.00
3814820.46	520.00	520.00	520.00	520.00
3814745.46	520.00	520.00	520.00	520.00
3814670.46	520.00	520.00	520.00	520.00
3814595.46	520.00	520.00	520.00	520.00
3814520.46	524.00	520.00	520.00	520.00
3814445.46	520.00	520.00	520.00	520.00
3814370.46	520.00	520.00	520.00	520.00
3814295.46	520.00	520.00	520.00	520.00
3814220.46	520.00	520.00	520.00	520.00
3814145.46	520.00	520.00	520.00	520.00
3814070.46	520.00	520.00	520.00	520.00
3813995.46	520.00	520.00	520.00	520.00
3813920.46	520.00	520.00	520.00	520.00
3813845.46	520.00	520.00	520.00	520.00
3813770.46	520.00	520.00	520.00	520.00
3813695.46	520.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00
3813545.46	520.00	520.00	520.00	520.00
3813470.46	520.00	520.00	520.00	520.00
3813395.46	520.00	520.00	520.00	520.00

3813320.46	520.00	520.00	520.00	520.00
3813245.46	520.00	520.00	520.00	520.00
3813170.46	520.00	520.00	520.00	520.00

**MODELOPTs: RegDFAULT CONC ELEV

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

```
     ( 350508.9, 3814829.9,     424.8,     520.0,       0.0);         (
350283.7, 3815266.5,     441.1,     524.0,       0.0);
     ( 350539.8, 3814604.7,     430.8,     520.0,       0.0);         (
350467.6, 3814245.4,     385.7,     520.0,       0.0);
     ( 350008.7, 3813941.2,     374.5,     524.0,       0.0);         (
350147.9, 3813936.0,     378.9,     520.0,       0.0);
     ( 350557.0, 3814453.4,     397.3,     520.0,       0.0);         (
349200.8, 3815251.0,     455.4,     524.0,       0.0);
     ( 349173.3, 3815257.9,     461.5,     524.0,       0.0);         (
348862.6, 3814174.1,     380.0,     524.0,       0.0);
     ( 348862.6, 3815183.5,     439.9,     585.0,       0.0);         (
350494.7, 3815179.7,     481.9,     487.0,       0.0);
     ( 350487.0, 3814363.6,     425.7,     520.0,       0.0);         (
350216.2, 3814363.6,     442.9,     520.0,       0.0);
     ( 350216.2, 3814193.4,     425.3,     520.0,       0.0);         (
349991.9, 3813969.1,     381.1,     520.0,       0.0);
     ( 349794.7, 3813961.4,     363.8,     524.0,       0.0);         (
349597.4, 3814065.8,     372.8,     524.0,       0.0);
     ( 349121.7, 3814085.1,     372.9,     524.0,       0.0);
```

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
VOL1	349820.3	3814070.5	-28.63
VOL1	349895.3	3814070.5	-47.40
VOL1	349970.3	3814070.5	-19.91
VOL1	349745.3	3814145.5	-10.63
VOL1	349820.3	3814145.5	-81.46
VOL1	349895.3	3814145.5	-121.82
VOL1	349970.3	3814145.5	-67.45
VOL1	349745.3	3814220.5	-9.02
VOL1	349820.3	3814220.5	-78.38
VOL1	349895.3	3814220.5	-115.61
VOL1	349970.3	3814220.5	-64.84
VOL1	349820.3	3814295.5	-23.19
VOL1	349895.3	3814295.5	-41.08
VOL1	349970.3	3814295.5	-14.81
VOL2	349295.3	3814145.5	-15.85
VOL2	349370.3	3814145.5	-40.21
VOL2	349445.3	3814145.5	-16.17

	VOL2	349295.3	3814220.5
-63.61			
	VOL2	349370.3	3814220.5
-115.21			
	VOL2	349445.3	3814220.5
-64.13			
	VOL2	349295.3	3814295.5
-56.16			
	VOL2	349370.3	3814295.5
-98.43			
	VOL2	349445.3	3814295.5
-56.63			
	VOL2	349295.3	3814370.5
-1.91			
	VOL2	349370.3	3814370.5
-23.43			
	VOL2	349445.3	3814370.5
-2.20			
	VOL3	349595.3	3814520.5
-2.17			
	VOL3	349670.3	3814520.5
-38.30			
	VOL3	349745.3	3814520.5
-29.27			
	VOL3	349595.3	3814595.5
-43.76			
	VOL3	349670.3	3814595.5
-107.96			
	VOL3	349745.3	3814595.5
-87.35			
	VOL3	349820.3	3814595.5
-17.41			
	VOL3	349595.3	3814670.5
-39.55			
	VOL3	349670.3	3814670.5
-97.95			
	VOL3	349745.3	3814670.5
-80.35			
	VOL3	349820.3	3814670.5
-14.03			
	VOL3	349670.3	3814745.5
-26.68			
	VOL3	349745.3	3814745.5
-18.46			

**MODELOPTs: RegDFAULT CONC ELEV

*** 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
```

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2005 1 1 1
AND END DATE: 2005 12 31 24

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: RegDFAULT CONC ELEV

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

Surface file: met\burk6.sfc
Met Version: 12345
Profile file: met\burk6.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	-3.2	0.063	-9.000	-9.000	-999.	37.	7.1	0.53	1.00	1.00	0.90	285.	9.1	279.9	5.5
05	01	01	1	02	-2.6	0.063	-9.000	-9.000	-999.	37.	8.7	0.53	1.00	1.00	0.90	277.	9.1	279.9	5.5
05	01	01	1	03	-2.6	0.063	-9.000	-9.000	-999.	37.	8.7	0.53	1.00	1.00	0.90	335.	9.1	279.2	5.5
05	01	01	1	04	-2.6	0.063	-9.000	-9.000	-999.	37.	8.6	0.53	1.00	1.00	0.90	291.	9.1	278.8	5.5
05	01	01	1	05	-3.0	0.063	-9.000	-9.000	-999.	37.	7.4	0.53	1.00	1.00	0.90	334.	9.1	278.1	5.5
05	01	01	1	06	-0.5	0.028	-9.000	-9.000	-999.	11.	3.8	0.53	1.00	1.00	0.40	309.	9.1	278.8	5.5
05	01	01	1	07	-2.6	0.063	-9.000	-9.000	-999.	37.	8.6	0.53	1.00	1.00	0.90	313.	9.1	278.8	5.5
05	01	01	1	08	-0.4	0.028	-9.000	-9.000	-999.	11.	4.5	0.53	1.00	0.56	0.40	256.	9.1	279.2	5.5
05	01	01	1	09	0.1	0.128	0.022	0.005	4.	105.	-1838.7	0.53	1.00	0.33	0.90	298.	9.1	282.5	5.5
05	01	01	1	10	0.1	0.128	0.025	0.005	5.	105.	-1838.7	0.53	1.00	0.25	0.90	103.	9.1	286.4	5.5
05	01	01	1	11	0.1	0.310	0.027	0.005	7.	397.	-8888.0	0.53	1.00	0.22	2.20	136.	9.1	287.0	5.5
05	01	01	1	12	0.1	0.310	0.028	0.005	8.	397.	-8888.0	0.53	1.00	0.21	2.20	152.	9.1	287.0	5.5
05	01	01	1	13	0.1	0.254	0.029	0.005	9.	295.	-8888.0	0.53	1.00	0.21	1.80	187.	9.1	285.9	5.5
05	01	01	1	14	0.1	0.184	0.030	0.005	9.	182.	-5471.6	0.53	1.00	0.22	1.30	157.	9.1	287.0	5.5

```
 05 01 01   1 15    0.1  0.184  0.031  0.005   10.  181.  -5471.6  0.53   1.00
0.26    1.30  192.    9.1  286.4    5.5
 05 01 01   1 16    0.1  0.254  0.031  0.005   11.  294.  -8888.0  0.53   1.00
0.34    1.80  188.    9.1  285.9    5.5
 05 01 01   1 17   -4.9  0.092 -9.000 -9.000 -999.   88.     13.8  0.53   1.00
0.61    1.30  200.    9.1  285.4    5.5
 05 01 01   1 18   -2.6  0.063 -9.000 -9.000 -999.   37.      8.7  0.53   1.00
1.00    0.90  162.    9.1  284.9    5.5
 05 01 01   1 19   -3.0  0.063 -9.000 -9.000 -999.   37.      7.5  0.53   1.00
1.00    0.90  176.    9.1  284.9    5.5
 05 01 01   1 20   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  210.    9.1  284.2    5.5
 05 01 01   1 21   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  236.    9.1  284.2    5.5
 05 01 01   1 22   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  272.    9.1  283.8    5.5
 05 01 01   1 23   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  251.    9.1  283.1    5.5
 05 01 01   1 24   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  301.    9.1  282.5    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   279.9   99.0  -99.00  -99.00
 05 01 01 01    9.1 1  285.    0.90  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	0.07189	0.08404	0.08296	0.07354	0.06533	0.06681	0.06738	0.06201	0.06522
3816020.46	0.08847	0.09438	0.08907	0.07246	0.07108	0.07114	0.07925	0.06857	0.07243
3815945.46	0.10327	0.10361	0.09355	0.07623	0.08293	0.07648	0.08892	0.07620	0.08291
3815870.46	0.12269	0.11998	0.11058	0.10153	0.09588	0.09141	0.10042	0.09187	0.09204
3815795.46	0.13307	0.13518	0.13165	0.12480	0.10651	0.12105	0.11900	0.10808	0.10499
3815720.46	0.15679	0.15070	0.13937	0.11144	0.10821	0.15011	0.13562	0.12537	0.12026
3815645.46	0.17219	0.17456	0.15821	0.12233	0.12446	0.17088	0.15795	0.15403	0.13135
3815570.46	0.16813	0.20409	0.18398	0.13038	0.14126	0.22781	0.18406	0.13705	0.11853
3815495.46	0.17719	0.23217	0.19945	0.13155	0.20434	0.23299	0.16959	0.12792	0.11454
3815420.46	0.24756	0.26794	0.20515	0.14326	0.26914	0.25478	0.16252	0.13423	0.15414
3815345.46	0.28446	0.31167	0.22249	0.17719	0.34250	0.27460	0.21093	0.21866	0.17598
3815270.46	0.33388	0.34530	0.24132	0.24545	0.42811	0.33936	0.24111	0.17367	0.14858
3815195.46	0.37335	0.38682	0.31195	0.27011	0.49478	0.48337	0.35701	0.21548	0.17017
3815120.46	0.40265	0.40447	0.35224	0.27949	0.40221	0.66746	0.49706	0.34804	0.23190
3815045.46	0.42865	0.43491	0.41935	0.35400	0.40002	0.80315	0.71510	0.57365	0.35711

3814970.46	0.42244	0.39028	0.33566	0.31193	0.31679	0.72294	0.93820	0.63763	0.43753	
3814895.46	0.22753	0.22624	0.20123	0.25004	0.33057	0.53962	1.13466	1.11186	0.78400	
3814820.46	0.22178	0.27232	0.21527	0.31192	0.38895	0.45500	1.13906	1.24317	0.80401	
3814745.46	0.32277	0.42591	0.31902	0.45577	0.49963	0.49246	1.01834	1.26146	1.33933	
3814670.46	0.50847	0.55403	0.49173	0.47673	0.72711	0.85863	1.18792	1.43083	1.46723	
3814595.46	0.49243	0.61798	0.74695	0.77719	0.74313	1.08219	1.23828	1.39121	1.29466	
3814520.46	0.45504	0.55732	0.69270	0.79812	0.96902	1.13057	1.27164	1.43895	0.88607	
3814445.46	0.42655	0.51340	0.61147	0.70228	0.88886	1.02732	1.17758	1.34214	1.26843	
3814370.46	0.25630	0.39505	0.48029	0.58070	0.80167	0.89900	1.03208	1.19623	1.37561	
3814295.46	0.06753	0.14591	0.27661	0.44193	0.50543	0.61812	0.89264	1.03081	1.18214	
3814220.46	0.03420	0.09306	0.19127	0.16990	0.23585	0.31013	0.74286	0.88063	1.01608	
3814145.46	0.04582	0.07138	0.04834	0.03274	0.04856	0.19667	0.41852	0.76478	0.86758	
3814070.46	0.03829	0.01815	0.01047	0.01223	0.03042	0.15564	0.31562	0.30770	0.74707	
3813995.46	0.01214	0.00821	0.00768	0.01014	0.01753	0.06175	0.08087	0.12512	0.37894	
3813920.46	0.02285	0.01532	0.01157	0.00751	0.01130	0.02732	0.02232	0.03820	0.14111	
3813845.46	0.06457	0.03872	0.01200	0.00754	0.00873	0.00924	0.01174	0.01625	0.03896	
3813770.46	0.08265	0.07164	0.03205	0.01061	0.01267	0.01141	0.01318	0.01605	0.04698	
3813695.46	0.12821	0.07894	0.02278	0.01458	0.02087	0.02446	0.04512	0.06273	0.27705	
3813620.46	0.14671	0.11908	0.03957	0.01591	0.03318	0.07600	0.12894	0.21464	0.19908	
3813545.46	0.13406	0.04075	0.01239	0.01163	0.03859	0.07429	0.05479	0.14907	0.10567	
3813470.46	0.05504	0.01313	0.02918	0.02881	0.02304	0.01507	0.01637	0.08030	0.05012	
3813395.46	0.09312	0.05985	0.11210	0.08932	0.06775	0.01670	0.01344	0.03430	0.01727	
3813320.46	0.25207	0.26207	0.15197	0.13861	0.06584	0.04653	0.01251	0.01095	0.01247	
3813245.46	0.14872	0.13791	0.08806	0.04754	0.01207	0.01041	0.00837	0.00682	0.00770	
3813170.46	0.07222	0.05158	0.02130	0.01056	0.00946	0.01304	0.00713	0.00663	0.00962	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	0.06446	0.05624	0.06099	0.05323	0.05297	0.04933	0.05076	0.06034	0.05742
3816020.46	0.06868	0.06187	0.06789	0.05934	0.06151	0.05506	0.06234	0.06614	0.06126
3815945.46	0.07989	0.07527	0.07925	0.06754	0.07242	0.05971	0.06681	0.07382	0.06967
3815870.46	0.08992	0.08813	0.08613	0.08335	0.08236	0.07529	0.07346	0.08145	0.08861
3815795.46	0.10126	0.09634	0.09936	0.09763	0.09386	0.08699	0.08241	0.08183	0.09354
3815720.46	0.11051	0.10867	0.11734	0.11188	0.10608	0.09977	0.09323	0.09214	0.10294
3815645.46	0.12015	0.11364	0.12453	0.12817	0.12087	0.11310	0.10149	0.09572	0.09865
3815570.46	0.11884	0.11954	0.13214	0.14868	0.13589	0.11782	0.09877	0.09253	0.09675
3815495.46	0.11622	0.12755	0.13428	0.16868	0.14396	0.12488	0.11450	0.10851	0.09066
3815420.46	0.12879	0.13771	0.16616	0.20292	0.17264	0.15446	0.13585	0.12365	0.10884
3815345.46	0.14440	0.15629	0.20667	0.21927	0.16284	0.14465	0.14155	0.11350	0.10875
3815270.46	0.17559	0.18787	0.23747	0.28505	0.18551	0.17740	0.16165	0.12965	0.14115
3815195.46	0.23143	0.25353	0.40894	0.28104	0.23490	0.20101	0.18228	0.16088	0.17755
3815120.46	0.33457	0.40116	0.47666	0.35908	0.27040	0.22000	0.20367	0.21241	0.22488
3815045.46	0.42621	0.58995	0.53453	0.29184	0.29724	0.27620	0.26160	0.27674	0.29610

3814970.46	0.43002	0.91992	0.84956	0.62064	0.40144	0.28715	0.34248	0.39873	0.37953	
3814895.46	0.63722	1.10852	0.80599	0.53552	0.40165	0.38152	0.47992	0.63572	0.39733	
3814820.46	1.17699	1.60842	1.14064	0.77985	0.90470	0.75797	0.72183	0.86875	0.59661	
3814745.46	1.54049	1.64364	0.83509	1.21159	1.11981	1.11264	1.33408	1.08158	0.52415	
3814670.46	1.71977	1.59077	1.18830	1.63748	2.25685	2.03770	2.38937	1.48016	0.82800	
3814595.46	1.47071	0.76667	1.20552	2.64221	3.28881	3.04099	3.65521	2.67119	1.70004	
3814520.46	0.62104	0.85359	1.31949	2.58969	3.70500	3.48652	4.42572	4.44587	1.92250	
3814445.46	1.28935	1.62444	1.67779	1.99810	3.56258	4.13733	4.11964	2.44862	2.14596	
3814370.46	1.58016	1.88903	2.25963	2.67528	3.24800	3.44356	1.79547	2.61200	3.12258	
3814295.46	1.36786	1.60003	1.88664	2.25801	2.73573	3.40756	3.02539	3.93261	2.79174	
3814220.46	1.16059	1.33302	1.54964	1.87411	2.23856	2.72924	3.46116	4.33983	3.96620	
3814145.46	0.98449	1.11554	1.30537	1.49934	1.74330	2.07272	2.51359	3.20266	4.41945	
3814070.46	0.85005	0.95016	1.07068	1.23323	1.39840	1.60636	1.89248	2.29288	2.90113	
3813995.46	0.74758	0.82599	0.94402	1.04850	1.16750	1.32122	1.52781	1.80353	2.17386	
3813920.46	0.66999	0.76192	0.84194	0.94478	1.04403	1.17868	1.33623	1.51997	1.79950	
3813845.46	0.63424	0.71464	0.79571	0.86684	0.49745	1.14672	1.23512	1.37270	1.55330	
3813770.46	0.60860	0.06391	0.05507	0.11446	0.11938	1.06514	1.12040	1.25558	1.37753	
3813695.46	0.17743	0.05230	0.01112	0.01998	0.09975	0.97198	1.08586	1.15622	1.20719	
3813620.46	0.20379	0.04176	0.01602	0.01455	0.02451	0.05297	0.96852	1.06567	1.15863	
3813545.46	0.07102	0.10119	0.03880	0.02208	0.08225	0.33887	0.25484	0.04200	0.16801	
3813470.46	0.02162	0.03622	0.04402	0.02109	0.02871	0.11338	0.07124	0.01386	0.05257	
3813395.46	0.01294	0.01156	0.02542	0.02260	0.07014	0.03651	0.30199	0.20752	0.03678	
3813320.46	0.00851	0.01142	0.01472	0.01878	0.16906	0.31517	0.63503	0.68486	0.27354	
3813245.46	0.01311	0.02264	0.06991	0.04693	0.06687	0.06908	0.32964	0.60168	0.65035	
3813170.46	0.01378	0.02721	0.06965	0.19602	0.14167	0.49433	0.53347	0.55447	0.56303	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	0.06162	0.06373	0.07680	0.08445	0.08505	0.08571	0.08722	0.11193	0.09058
3816020.46	0.07567	0.07906	0.08191	0.09803	0.10687	0.11696	0.09769	0.11442	0.13377
3815945.46	0.08503	0.10345	0.10082	0.11361	0.12870	0.14275	0.14723	0.13065	0.17232
3815870.46	0.09028	0.11412	0.13109	0.14600	0.15858	0.17116	0.19171	0.18638	0.20236
3815795.46	0.11096	0.12529	0.14268	0.16327	0.18498	0.21475	0.24460	0.29686	0.32659
3815720.46	0.11046	0.10585	0.11760	0.17661	0.20429	0.24861	0.23341	0.25678	0.40429
3815645.46	0.10876	0.10581	0.14948	0.19213	0.19149	0.19882	0.25110	0.31138	0.40577
3815570.46	0.10990	0.11345	0.15082	0.16014	0.17039	0.20667	0.20839	0.27950	0.29411
3815495.46	0.10970	0.11571	0.13956	0.13250	0.16481	0.19514	0.16784	0.17962	0.20581
3815420.46	0.10840	0.11143	0.12113	0.15134	0.17014	0.17322	0.16246	0.17466	0.16281
3815345.46	0.09962	0.10723	0.11382	0.14528	0.16237	0.16097	0.15418	0.16657	0.14411
3815270.46	0.12256	0.13238	0.12986	0.14242	0.14038	0.15740	0.15823	0.15034	0.12966
3815195.46	0.16827	0.15151	0.15592	0.18644	0.18346	0.17994	0.20365	0.17782	0.13143
3815120.46	0.20737	0.18674	0.16226	0.22044	0.22872	0.21183	0.23745	0.19656	0.14943
3815045.46	0.25472	0.21877	0.22003	0.23772	0.29022	0.26837	0.27921	0.22230	0.17315

3814970.46	0.26836	0.25258	0.29860	0.27570	0.34205	0.34406	0.31869	0.25982	0.17881
3814895.46	0.35320	0.34525	0.39563	0.33516	0.41631	0.44270	0.33432	0.23388	0.18870
3814820.46	0.42446	0.44951	0.54241	0.46631	0.54522	0.50051	0.36158	0.28888	0.24869
3814745.46	0.47421	0.52051	0.68470	0.64104	0.77376	0.62486	0.50119	0.40947	0.34043
3814670.46	0.85134	1.05104	0.91543	1.02424	1.15654	0.94627	0.76552	0.58152	0.43743
3814595.46	1.45346	2.26142	2.29961	1.81418	1.78018	1.31767	1.02095	0.75505	0.51400
3814520.46	1.75392	4.30452	3.96016	4.17166	2.30527	1.28540	1.08091	0.77577	0.56433
3814445.46	2.40993	8.15823	11.09738	7.92702	4.08269	2.64435	1.72870	1.33446	0.68529
3814370.46	5.21612	13.71563	16.42705	7.85400	4.57483	4.76669	4.16239	2.05039	1.20262
3814295.46	7.95906	14.57565	10.94777	6.90097	5.18383	7.25807	4.36231	3.68649	1.40366
3814220.46	7.43011	12.89103	4.88460	3.59841	5.01827	9.23786	4.29545	5.50186	1.67553
3814145.46	6.11517	9.40233	12.05423	3.62121	7.71959	5.84831	3.86295	10.28833	10.30614
3814070.46	3.95664	5.86609	10.02024	13.90402	22.15581	9.32659	3.11344	5.51808	14.82228
3813995.46	2.72283	3.51520	4.69964	6.66465	13.35907	11.07457	6.47205	21.69733	8.68101
3813920.46	2.16411	2.65281	3.29100	4.10034	5.63210	8.79391	10.54206	14.61443	12.72443
3813845.46	1.79220	2.09359	2.46661	2.87738	3.43698	4.47586	5.93915	8.26770	9.73682
3813770.46	1.50175	1.69269	1.91445	2.14191	2.40951	2.84914	3.57386	4.65420	5.77105
3813695.46	1.27597	1.40297	1.53447	1.66563	1.81253	2.03712	2.41758	3.12753	4.26239
3813620.46	1.20625	1.26575	1.26155	1.34013	1.42430	1.54924	1.77208	2.12814	2.55416
3813545.46	0.49734	1.12712	1.08280	1.12399	1.16028	1.23375	1.36820	1.57764	1.86657
3813470.46	0.96789	1.01611	0.96748	1.00816	0.98611	1.01579	1.10066	1.23690	1.43339
3813395.46	0.16856	0.92179	0.96202	0.93495	0.86439	0.86091	0.91727	1.01045	1.14081
3813320.46	0.75323	0.44927	0.10633	0.40185	0.83579	0.78801	0.81993	0.85111	0.93324
3813245.46	0.65963	0.70454	0.72495	0.14046	0.25056	0.77710	0.74038	0.76215	0.81201
3813170.46	0.59197	0.56554	0.58828	0.66372	0.36035	0.21489	0.71276	0.71396	0.71119

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	0.10176	0.07142	0.06440	0.09918	0.06268	0.07050	0.04584	0.05664	0.27580
3816020.46	0.13050	0.12776	0.11087	0.10572	0.13179	0.12664	0.08256	0.11298	0.16573
3815945.46	0.16369	0.18107	0.24578	0.31383	0.23188	0.27485	0.21149	0.38414	0.28521
3815870.46	0.22887	0.26296	0.40530	0.48129	0.36728	0.40442	0.30101	0.57719	0.41514
3815795.46	0.33089	0.36477	0.41421	0.53912	0.62116	0.54762	0.61150	0.64620	0.65153
3815720.46	0.46813	0.48329	0.52992	0.68198	0.71995	0.71297	0.62975	0.71721	0.70507
3815645.46	0.47386	0.61069	0.64288	0.76265	0.79691	0.80706	0.79086	0.77356	0.74947
3815570.46	0.25401	0.52359	0.60956	0.58598	0.82393	0.86931	0.84070	0.83256	0.79095
3815495.46	0.14184	0.21405	0.33456	0.16443	0.42665	0.68963	0.85180	0.89337	0.87056
3815420.46	0.12522	0.17442	0.20290	0.33659	0.52903	0.67137	0.89716	0.94956	0.94922
3815345.46	0.12071	0.11843	0.16362	0.24182	0.26632	0.36080	0.72941	0.84602	1.02249
3815270.46	0.13522	0.13482	0.15604	0.13654	0.10761	0.14646	0.32427	0.13178	0.52168
3815195.46	0.12456	0.12649	0.12410	0.11369	0.09416	0.09815	0.09602	0.13326	0.37947
3815120.46	0.14443	0.12419	0.11639	0.11885	0.11363	0.09388	0.09349	0.09436	0.13775
3815045.46	0.15354	0.15746	0.14439	0.12887	0.13133	0.09835	0.09399	0.09732	0.09377

3814970.46	0.18160	0.16048	0.17477	0.14499	0.15492	0.11476	0.11058	0.09388	0.14514
3814895.46	0.18830	0.19450	0.17676	0.18287	0.17464	0.14171	0.14776	0.14375	0.24930
3814820.46	0.22221	0.21960	0.21099	0.18682	0.19372	0.22725	0.32891	0.67279	0.89896
3814745.46	0.25344	0.22344	0.18338	0.16212	0.15461	0.14103	0.14615	0.13447	0.61016
3814670.46	0.34522	0.24699	0.22084	0.20458	0.17027	0.14738	0.20397	0.30030	0.24479
3814595.46	0.37662	0.27977	0.26899	0.27051	0.29939	0.17509	0.30169	1.65236	1.29282
3814520.46	0.41177	0.30662	0.33225	0.55455	1.03815	1.13043	0.59989	2.65665	3.13846
3814445.46	0.48153	0.36121	0.34184	0.34321	0.48746	2.22461	2.75965	3.56488	1.93420
3814370.46	0.59163	0.62827	0.85632	0.72755	0.31505	0.47949	1.94653	1.22032	3.53173
3814295.46	0.75769	0.83541	2.19331	4.58564	2.97897	1.57847	1.90415	1.63800	3.77474
3814220.46	0.98969	0.67088	2.54235	5.91765	7.13953	6.03813	4.18425	0.55522	1.03190
3814145.46	1.00194	1.47323	0.87016	5.94899	9.36597	7.39229	4.81333	5.45886	2.43800
3814070.46	1.63396	1.31495	1.22034	10.64404	9.60017	7.17403	6.38238	5.67732	4.96419
3813995.46	10.24724	6.17742	1.05821	10.13851	8.95649	7.56264	5.90724	4.83583	4.60442
3813920.46	7.85113	1.11095	1.05144	5.48433	4.73059	6.71347	5.72489	4.55232	3.93081
3813845.46	4.67016	3.96098	8.23503	2.58735	3.69885	5.27630	3.59281	4.94371	4.15865
3813770.46	6.08473	7.14004	5.99772	6.91643	6.02743	5.26878	3.10649	3.23542	4.13594
3813695.46	4.43685	5.17902	5.57399	5.08368	5.18082	3.51320	4.16835	4.33957	3.33122
3813620.46	3.04391	3.54533	4.10655	3.90548	4.06747	4.17529	4.11227	3.58443	2.86795
3813545.46	2.19690	2.52763	2.77689	3.00265	3.41742	3.19760	3.10039	3.06781	2.55196
3813470.46	1.67387	1.92114	2.13921	2.33393	2.44193	2.90714	2.93487	2.70638	2.36992
3813395.46	1.31617	1.50539	1.69057	1.85163	1.96725	2.12812	2.53527	2.44211	2.08030
3813320.46	1.06070	1.20470	1.35738	1.50198	1.62344	1.72009	2.01720	1.92588	1.83372
3813245.46	0.87653	0.98563	1.10920	1.23513	1.34660	1.42985	1.49555	1.80231	1.54856
3813170.46	0.74982	0.82764	0.92224	1.02567	1.12733	1.20945	1.26989	1.38834	1.37635

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	0.12367	0.08266	0.08841	0.20836
3816020.46	0.33031	0.13871	0.30243	0.38946
3815945.46	0.50181	0.29720	0.41484	0.54865
3815870.46	0.54729	0.42306	0.59090	0.57761
3815795.46	0.61776	0.64153	0.58009	0.59897
3815720.46	0.69006	0.68326	0.65017	0.63350
3815645.46	0.73437	0.71947	0.68159	0.63649
3815570.46	0.75929	0.74884	0.72479	0.71446
3815495.46	0.81897	0.76862	0.73940	0.72113
3815420.46	0.89519	0.82168	0.78481	0.73865
3815345.46	0.97766	0.93638	0.86133	0.79117
3815270.46	1.03245	0.92581	0.97635	0.86441
3815195.46	0.54899	0.81345	0.90810	1.02173
3815120.46	0.16374	0.15286	0.20577	0.80170
3815045.46	0.11955	0.18982	0.66196	0.63248
3814970.46	0.14123	0.12115	0.16594	0.50286
3814895.46	0.53873	0.19010	0.35134	0.58636
3814820.46	1.04824	0.58862	0.40771	0.97451
3814745.46	1.26924	1.62476	1.03925	0.60658
3814670.46	1.18491	1.12859	1.67161	1.89576
3814595.46	2.01751	1.58328	1.38959	2.00542
3814520.46	2.75081	2.50550	2.41617	1.70206
3814445.46	2.00880	2.85833	2.29629	2.35400
3814370.46	3.43397	3.09087	2.36451	2.34238
3814295.46	3.66550	2.81204	2.47857	2.40455
3814220.46	4.00000	3.46972	2.64167	2.31926
3814145.46	2.98335	3.58014	3.39083	2.53637
3814070.46	4.21363	3.03927	3.53851	2.68818
3813995.46	3.73949	3.34340	3.32297	2.89169
3813920.46	3.50532	3.12653	2.82529	2.57277
3813845.46	3.35978	3.01132	2.69822	2.45983

3813770.46	3.76701	3.29405	2.61402	2.35206
3813695.46	2.96726	2.69219	2.41430	2.22540
3813620.46	2.62944	2.42909	2.25313	2.09324
3813545.46	2.39067	2.23718	2.09500	1.96133
3813470.46	2.14918	2.04399	1.93613	1.82818
3813395.46	1.91952	1.85329	1.77754	1.69600
3813320.46	1.70125	1.66578	1.61838	1.56135
3813245.46	1.50076	1.48455	1.46053	1.42687
3813170.46	1.32313	1.31953	1.31101	1.29425

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** 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
350508.88	3814829.88	0.19969	350283.70	3815266.49	0.13607
350539.82	3814604.70	0.20180	350467.63	3814245.45	5.85894
350008.68	3813941.20	16.33216	350147.91	3813936.04	14.90938
350557.01	3814453.44	2.16048	349200.78	3815251.02	0.18736
349173.28	3815257.89	0.17811	348862.58	3814174.11	1.07888
348862.58	3815183.55	0.27144	350494.71	3815179.68	0.09596
350486.97	3814363.62	0.34574	350216.24	3814363.62	0.58449
350216.24	3814193.45	0.86321	349991.92	3813969.12	14.44687
349794.67	3813961.39	6.95243	349597.42	3814065.81	5.71800
349121.71	3814085.15	1.39479			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28
3816095.5	0.46976 (05031524)	0.57451 (05031524)	0.60770 (05031524)	0.55393 (05031524)	0.43511 (05110924)
3816020.5	0.59078m(05051624)	0.59989m(05051624)	0.59746 (05031524)	0.45215 (05031524)	0.46273 (05110924)
3815945.5	0.65212m(05051624)	0.68393m(05051624)	0.57908m(05051624)	0.45331 (05031524)	0.62012 (05031524)
3815870.5	0.66874 (05010424)	0.74577m(05051624)	0.71573m(05051624)	0.61116m(05051624)	0.63928 (05031524)
3815795.5	0.73980m(05010924)	0.71563 (05010424)	0.80360m(05051624)	0.78841m(05051624)	0.62040m(05051624)
3815720.5	0.82107m(05010924)	0.81066m(05010924)	0.74639 (05010424)	0.66284m(05051624)	0.66062m(05051624)
3815645.5	0.79248m(05010924)	0.88213m(05010924)	0.84323m(05010924)	0.71794 (05010424)	0.72934m(05051624)
3815570.5	0.70251 (05052224)	0.87205m(05010924)	0.91336m(05010924)	0.74399 (05010424)	0.79148 (05010424)
3815495.5	0.83175 (05022024)	0.98328 (05070724)	0.86167m(05010924)	0.73766m(05010924)	1.01687m(05010924)
3815420.5	1.20537 (05022024)	1.20363 (05070724)	0.85499 (05022024)	0.72215m(05010924)	1.16529m(05010924)
3815345.5	1.49198 (05022024)	1.46779 (05022024)	1.10282 (05022024)	0.86661 (05022024)	1.43372 (05070724)
3815270.5	1.74136 (05022024)	1.75702 (05022024)	1.33217 (05022024)	1.25224 (05022024)	2.02946 (05070724)
3815195.5	1.88604 (05063024)	1.93020 (05022024)	1.67452 (05022024)	1.48730 (05022024)	2.29370 (05070724)
3815120.5	2.04462 (05063024)	2.05716 (05063024)	1.74199 (05022024)	1.51754 (05022024)	2.00970 (05022024)
3815045.5	2.05088 (05121324)	2.06167 (05063024)	2.07828 (05063024)	1.69272 (05063024)	1.97058 (05022024)

3814970.5 | 2.50566 (05070624) 2.16227 (05070624) 1.67836 (05070624) 1.45191 (05063024) 1.47494 (05063024)
3814895.5 | 1.52778 (05070624) 1.50298 (05070624) 1.26966 (05070624) 1.43663 (05070624) 1.64437 (05070624)
3814820.5 | 1.26746 (05070624) 1.64908 (05070624) 1.39373 (05070624) 1.96494 (05070624) 2.30384 (05070624)
3814745.5 | 1.95281 (05122224) 2.53385 (05122224) 1.64890 (05122224) 2.48484 (05031124) 2.74390 (05070624)
3814670.5 | 3.71784 (05062224) 3.70349 (05062224) 3.02075 (05122224) 2.80801 (05122224) 4.38182m(05031024)
3814595.5 | 4.32583 (05062224) 4.98293 (05062224) 5.51625 (05062224) 5.58058 (05062224) 5.04979 (05062224)
3814520.5 | 3.78091 (05062224) 4.44403 (05062224) 5.06693 (05062224) 5.53196 (05062224) 4.97106 (05062224)
3814445.5 | 3.81584 (05110624) 4.13040 (05110624) 4.40052 (05110624) 4.60922 (05110624) 4.51533 (05110624)
3814370.5 | 2.42940 (05091924) 3.40567 (05110624) 3.86670 (05110624) 4.29492 (05110624) 4.40463 (05110624)
3814295.5 | 1.08846 (05060424) 1.70081 (05060424) 2.52737 (05122324) 3.39286 (05122324) 3.62060 (05122324)
3814220.5 | 0.68037 (05122324) 1.51971 (05122324) 2.54197 (05122324) 2.27591 (05122324) 2.80759 (05122324)
3814145.5 | 0.82096 (05122324) 1.14974 (05122324) 0.81752 (05122324) 0.57478 (05122324) 0.77154 (05122324)
3814070.5 | 0.73706 (05021924) 0.31645 (05021924) 0.27790 (05120424) 0.29648 (05120424) 0.61656 (05021924)
3813995.5 | 0.29471 (05021924) 0.27065 (05021024) 0.28963 (05021024) 0.31945 (05021024) 0.41568 (05021924)
3813920.5 | 0.68869 (05021924) 0.40389 (05021924) 0.37487 (05021024) 0.37365 (05021024) 0.42082 (05120424)
3813845.5 | 1.44371m(05061924) 0.79747m(05061924) 0.46533 (05120424) 0.47613 (05120424) 0.55572 (05120424)
3813770.5 | 1.76086m(05111324) 1.49202m(05111324) 0.70521 (05120424) 0.65017 (05120424) 0.70556 (05120424)
3813695.5 | 1.88853 (05010624) 1.47181 (05010624) 0.72738 (05120424) 0.68732 (05120424) 0.70801 (05120424)
3813620.5 | 1.64474 (05010624) 1.38522 (05010624) 0.81286m(05121724) 0.54210 (05120424) 0.95027m(05121724)
3813545.5 | 1.58902m(05121724) 1.09703m(05121724) 0.39480m(05121724) 0.36005m(05121724) 1.09710m(05121724)
3813470.5 | 1.45864m(05121724) 0.47333m(05121724) 0.90430m(05121724) 0.76773m(05121724) 0.61415 (05112224)
3813395.5 | 1.92843 (05112224) 1.61610 (05112224) 2.64970 (05112224) 2.49970 (05112224) 2.11176 (05112224)
3813320.5 | 2.54739 (05112224) 2.48693 (05112224) 3.18916 (05112224) 3.15071 (05112224) 1.95187 (05112224)
3813245.5 | 2.91385 (05112224) 2.99106 (05112224) 2.42344 (05112224) 1.41565 (05112224) 0.38432 (05123024)
3813170.5 | 2.15227 (05112224) 1.59941 (05112224) 0.56913 (05112224) 0.36297 (05123024) 0.35383 (05020124)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348545.28	348620.28	348695.28	348770.28	348845.28
3816095.5	0.42509 (05110924)	0.39185 (05052724)	0.38459 (05122624)	0.55559 (05122624)	0.69849 (05122624)
3816020.5	0.46655 (05110924)	0.47261 (05110924)	0.37643 (05052724)	0.55873 (05122624)	0.65118 (05122624)
3815945.5	0.49648 (05110924)	0.54274 (05110924)	0.44445 (05110924)	0.48507 (05122624)	0.67743 (05122624)
3815870.5	0.62489 (05031524)	0.59463 (05110924)	0.55295 (05110924)	0.52476 (05052724)	0.60929 (05122624)
3815795.5	0.66358 (05031524)	0.63150 (05031524)	0.63228 (05110924)	0.59491 (05110924)	0.56467 (05052724)
3815720.5	0.82025m(05051624)	0.68221 (05031524)	0.67669 (05110924)	0.67810 (05110924)	0.60816 (05052724)
3815645.5	1.00129m(05051624)	0.83401m(05051624)	0.69858 (05110924)	0.72243 (05110924)	0.68869 (05110924)
3815570.5	1.22380m(05051624)	1.04721m(05051624)	0.70768m(05051624)	0.69697 (05031524)	0.70196 (05110924)
3815495.5	1.07796m(05051624)	0.95136m(05051624)	0.70324m(05051624)	0.59360 (05110924)	0.66919 (05110924)
3815420.5	1.19079m(05010924)	0.88909 (05010424)	0.74405 (05010424)	0.82939m(05051624)	0.72621 (05031524)
3815345.5	1.17920m(05010924)	1.04787m(05010924)	1.05335 (05010424)	0.92285m(05051624)	0.72398m(05051624)
3815270.5	1.38489 (05070724)	1.08885m(05010924)	0.91880m(05010924)	0.85128 (05010424)	0.91221 (05010424)
3815195.5	2.27198 (05070724)	1.44020 (05070724)	1.02004m(05010924)	0.89520m(05010924)	1.14273 (05010424)
3815120.5	3.03819 (05070724)	2.26234 (05070724)	1.43588 (05022024)	1.06494m(05010924)	1.44555m(05010924)
3815045.5	3.44231 (05100224)	3.10950 (05070724)	2.56436 (05070724)	1.59143 (05022024)	1.57504 (05022024)

3814970.5 | 3.35349 (05063024) 4.02528 (05100224) 2.80270 (05022024) 2.09584 (05022024) 1.92181 (05022024)
3814895.5 | 2.46551 (05063024) 4.93831 (05063024) 4.79538 (05063024) 3.28713 (05100224) 2.81059 (05022024)
3814820.5 | 2.43599 (05070624) 5.26453 (05121324) 5.28465 (05121324) 3.53007 (05063024) 4.96642 (05100224)
3814745.5 | 2.80835 (05070624) 5.42633 (05031124) 5.90186 (05031124) 5.72262 (05121324) 6.23107 (05100224)
3814670.5 | 5.14881m(05031024) 6.80393m(05031024) 7.54122m(05031024) 7.27418 (05031124) 7.51662 (05031124)
3814595.5 | 6.58649 (05062224) 7.04347m(05031024) 7.77441m(05031024) 7.33027m(05031024) 7.79685m(05031024)
3814520.5 | 5.89879 (05062224) 6.39905 (05062224) 6.91310 (05062224) 5.18648 (05062224) 3.01697m(05031024)
3814445.5 | 5.16129 (05062224) 5.98223 (05062224) 6.75165 (05062224) 7.61068 (05062224) 8.03370 (05062224)
3814370.5 | 4.80114 (05110624) 5.40925 (05091924) 6.22369 (05091924) 6.98271 (05091924) 7.71237 (05091924)
3814295.5 | 4.03388 (05091924) 4.49233 (05122324) 5.19327 (05091924) 5.94457 (05091924) 6.84283 (05091924)
3814220.5 | 3.29292 (05122324) 4.22300 (05122324) 4.98004 (05122324) 5.62039 (05122324) 6.21226 (05122324)
3814145.5 | 2.29740 (05122324) 3.78430 (05012124) 4.49808 (05122324) 5.04583 (05122324) 5.98585 (05123024)
3814070.5 | 2.31423 (05021924) 3.12178 (05021924) 3.21265 (05021924) 4.09771 (05123024) 5.30032 (05123024)
3813995.5 | 1.47377 (05021924) 1.72057 (05021924) 2.17524 (05021924) 3.48771m(05061924) 3.69044m(05111324)
3813920.5 | 0.55932 (05120424) 0.62544 (05120424) 0.76989 (05120424) 2.21797m(05111324) 3.19262m(05111324)
3813845.5 | 0.61878 (05120424) 0.70791 (05120424) 0.80104 (05120424) 0.95983 (05120424) 2.94495 (05010624)
3813770.5 | 0.71113 (05120424) 0.73483 (05120424) 0.74881 (05120424) 0.94569m(05121724) 3.51355 (05112224)
3813695.5 | 0.68977 (05120424) 1.07359m(05121724) 1.45186m(05121724) 3.44025 (05112224) 3.27058 (05112224)
3813620.5 | 1.69581m(05121724) 2.30821 (05112224) 3.51443 (05112224) 3.83361 (05112224) 4.15684 (05112224)
3813545.5 | 1.84752 (05112224) 1.55682 (05112224) 3.47386 (05112224) 2.84978 (05112224) 1.89999 (05112224)
3813470.5 | 0.41529 (05032124) 0.43051 (05032124) 2.27483 (05112224) 1.28180 (05112224) 0.56104 (05123024)
3813395.5 | 0.40846 (05112224) 0.38758 (05020124) 0.80208 (05123024) 0.49406 (05020124) 0.49801 (05020124)
3813320.5 | 1.26788 (05112224) 0.41544 (05020124) 0.43358 (05020124) 0.44777 (05020124) 0.39417 (05020124)
3813245.5 | 0.38295 (05020124) 0.38195 (05020124) 0.38952 (05120324) 0.36765 (05120324) 0.37776 (05020124)
3813170.5 | 0.37603 (05120324) 0.37747 (05120324) 0.34125 (05120324) 0.31292 (05020124) 0.33793 (05020124)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348920.28	348995.28	349070.28	349145.28	349220.28
3816095.5	0.64790 (05122624)	0.72625 (05122624)	0.52689 (05122624)	0.42431 (05122624)	0.31926 (05111724)
3816020.5	0.66745 (05122624)	0.88168 (05122624)	0.67387 (05122624)	0.57842 (05122624)	0.35766 (05011224)
3815945.5	0.84931 (05122624)	0.96372 (05122624)	0.77354 (05122624)	0.74055 (05122624)	0.44163 (05122624)
3815870.5	0.82665 (05122624)	0.97955 (05122624)	0.99882 (05122624)	0.90379 (05122624)	0.65350 (05122624)
3815795.5	0.74629 (05122624)	0.99509 (05122624)	1.11183 (05122624)	1.05940 (05122624)	0.84285 (05122624)
3815720.5	0.65793 (05122624)	0.96837 (05122624)	1.15633 (05122624)	1.18276 (05122624)	1.03086 (05122624)
3815645.5	0.60765 (05052724)	0.84792 (05122624)	1.14454 (05122624)	1.27124 (05122624)	1.19735 (05122624)
3815570.5	0.67420 (05110924)	0.70679 (05122624)	1.08348 (05122624)	1.29600 (05122624)	1.26098 (05122624)
3815495.5	0.73859 (05110924)	0.71701 (05110924)	0.96675 (05122624)	1.22070 (05122624)	1.28469 (05122624)
3815420.5	0.77445 (05110924)	0.88314 (05110924)	1.01758 (05052724)	1.16488 (05122624)	1.39972 (05122624)
3815345.5	0.79635 (05110924)	0.99659 (05110924)	1.01080 (05052724)	0.91778 (05122624)	1.17353 (05122624)
3815270.5	0.91904m(05051624)	1.02647 (05110924)	1.19167 (05060924)	0.93476 (05110924)	1.14763 (05122624)
3815195.5	1.23496m(05051624)	1.72663m(05051624)	1.16974 (05110924)	1.15225 (05110924)	0.99677 (05122624)
3815120.5	1.62312m(05010924)	2.00068m(05051624)	1.53109m(05051624)	1.24559 (05110924)	1.09477 (05110924)
3815045.5	2.10211m(05010924)	2.00016m(05010924)	1.30823 (05010424)	1.29180 (05021824)	1.31555 (05110924)

3814970.5 | 3.77424 (05070724) 2.95422 (05071324)
2.24317m(05010924) 1.65146m(05051624) 1.29741 (05021824)
3814895.5 | 4.89577 (05070724) 3.15571 (05070724) 1.99048
(05022024) 1.66994 (05010424) 1.59015 (05010424)
3814820.5 | 6.39361 (05070724) 4.83288 (05070724) 2.98316
(05022024) 3.05846 (05022024) 2.64232m(05010924)
3814745.5 | 6.76179 (05100224) 3.47690 (05022024) 4.89610
(05070724) 4.29162 (05070724) 3.83394 (05022024)
3814670.5 | 6.18121 (05121324) 4.77259 (05063024) 6.53285
(05100224) 8.55030 (05070724) 7.86449 (05070724)
3814595.5 | 3.73086 (05070624) 5.04257 (05070624)
9.39598m(05031024) 11.39464 (05100224) 10.97506 (05063024)
3814520.5 | 4.23467m(05031024) 6.61314m(05031024)
11.55051m(05031024) 12.42141m(05031024) 11.93200m(05031024)
3814445.5 | 9.22080 (05062224) 9.25405 (05062224)
10.35360m(05031024) 13.94389m(05031024) 14.42557m(05031024)
3814370.5 | 8.99592 (05091924) 10.68651 (05062224) 11.90682
(05062224) 13.46239 (05062224) 12.05414m(05031024)
3814295.5 | 7.91241 (05091924) 9.08957 (05091924) 10.49780
(05091924) 12.09020 (05091924) 14.16538 (05091924)
3814220.5 | 6.87221 (05122324) 7.68707 (05122324) 8.80769
(05122324) 10.12418 (05122324) 11.82493 (05122324)
3814145.5 | 6.81970 (05123024) 7.32490 (05123024) 8.21770
(05123024) 9.26158 (05123024) 10.62006 (05122324)
3814070.5 | 5.85956 (05123024) 6.47106 (05123024) 7.06596
(05123024) 7.83512 (05123024) 8.73946 (05123024)
3813995.5 | 3.89728 (05122324) 4.99157m(05111324)
5.47053m(05111324) 5.94822m(05111324) 6.50362 (05123024)
3813920.5 | 4.55781m(05111324) 4.81734m(05111324)
4.80001m(05111324) 5.91202 (05112224) 7.44142 (05112224)
3813845.5 | 3.47578 (05010624) 4.49607 (05112224) 4.23624
(05112224) 5.60750 (05112224) 6.42787 (05112224)
3813770.5 | 1.35295m(05121724) 1.09951m(05121724) 2.50807
(05112224) 2.63232 (05112224) 6.76243 (05112224)
3813695.5 | 1.22831 (05112224) 0.42008 (05020124) 0.62992
(05020124) 1.96570 (05112224) 5.48671 (05112224)
3813620.5 | 1.01651 (05112224) 0.58977 (05020124) 0.65554
(05020124) 0.79690 (05020124) 0.95707 (05020124)
3813545.5 | 2.19344 (05112224) 0.84596 (05123024) 0.69288
(05020124) 1.30228 (05012024) 2.73959 (05010224)
3813470.5 | 0.80211 (05123024) 0.79112 (05082724) 0.61658
(05020124) 0.68170 (05020124) 2.12077 (05010224)
3813395.5 | 0.48189 (05020124) 0.54847 (05020124) 0.56051
(05020124) 1.61025 (05010224) 1.14092 (05010224)
3813320.5 | 0.41335 (05020124) 0.44377 (05020124) 0.57091
(05010224) 2.67201 (05010224) 2.83615 (05010224)
3813245.5 | 0.42831 (05010224) 1.56681 (05010224) 1.48661
(05010224) 1.59449 (05010224) 1.36876 (05020524)
3813170.5 | 0.85425 (05010224) 1.83984 (05010224) 2.50895
(05010224) 1.93940 (05020524) 2.28695 (05021024)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 349295.28	349370.28	349445.28	349520.28	349595.28
3816095.5	0.38029 (05111724)	0.55200 (05111724)	0.40230 (05111724)	0.36262 (05091124)	0.38175 (05042124)
3816020.5	0.53505 (05111724)	0.57825 (05111724)	0.43976 (05111724)	0.46506 (05091124)	0.47996 (05042124)
3815945.5	0.51763 (05111724)	0.59702 (05111724)	0.55773 (05111724)	0.55032 (05091124)	0.62346 (05081224)
3815870.5	0.51569 (05011224)	0.60533 (05111724)	0.60667 (05111724)	0.58491 (05091124)	0.68694 (05110924)
3815795.5	0.57877 (05011224)	0.59823 (05111724)	0.63941 (05111724)	0.77028 (05091124)	0.76216 (05091124)
3815720.5	0.75503 (05122624)	0.58569 (05111724)	0.66568 (05111724)	0.72830 (05091124)	0.60635 (05091124)
3815645.5	0.91479 (05122624)	0.60262 (05011224)	0.67554 (05111724)	0.66554 (05111724)	0.58536 (05091124)
3815570.5	0.98150 (05122624)	0.66542 (05122624)	0.66797 (05111724)	0.70871 (05111724)	0.62611 (05091124)
3815495.5	1.15965 (05122624)	0.87971 (05122624)	0.49736 (05111724)	0.73781 (05111724)	0.66771 (05111724)
3815420.5	1.36582 (05122624)	1.10449 (05122624)	0.65663 (05122624)	0.67408 (05111724)	0.64815 (05111724)
3815345.5	1.36320 (05122624)	1.01763 (05122624)	0.74337 (05122624)	0.58521 (05111724)	0.61697 (05111724)
3815270.5	1.39539 (05122624)	1.16992 (05122624)	1.15843 (05122624)	0.62593 (05122624)	0.76340 (05111724)
3815195.5	1.33147 (05122624)	1.40492 (05122624)	1.50373 (05122624)	1.05911 (05122624)	0.82029 (05111724)
3815120.5	1.18826 (05122624)	1.64387 (05122624)	1.85571 (05122624)	1.46042 (05122624)	0.94509 (05111724)
3815045.5	1.22156 (05110924)	1.72405 (05122624)	2.18173 (05122624)	1.86918 (05122624)	1.14844 (05122624)

3814970.5 | 1.53761 (05110924) 1.76197 (05122624) 2.34270
(05122624) 1.99893 (05122624) 1.52100 (05122624)
3814895.5 | 1.87803 (05021824) 2.10689 (05021824) 2.11615
(05122624) 2.38183 (05122624) 2.15851 (05122624)
3814820.5 | 2.51897m(05010924) 2.74176 (05022124) 2.22972
(05021824) 2.48443 (05122624) 2.72796 (05122624)
3814745.5 | 4.16277 (05022024) 3.46142 (05022024) 2.17336
(05021824) 2.30261 (05122624) 2.97616 (05122624)
3814670.5 | 8.14822 (05070724) 4.86222 (05022024) 2.94952
(05021824) 3.10196 (05021824) 4.20435 (05122624)
3814595.5 | 12.81449 (05070724) 8.92932 (05070724) 5.75994
(05022024) 4.71566 (05022024) 6.04351 (05100824)
3814520.5 | 14.37334 (05063024) 15.00290 (05063024) 6.74404
(05022024) 6.15500 (05022024) 11.60092 (05071924)
3814445.5 | 15.56877m(05031024) 8.13900 (05063024) 7.04860
(05070724) 7.98185 (05022024) 21.33223m(05030724)
3814370.5 | 7.74493m(05031024) 10.44282m(05031024)
10.68783m(05031024) 15.58107 (05063024) 31.26869 (05063024)
3814295.5 | 12.73995 (05062224) 15.33834 (05062224)
11.05598m(05031024) 25.95204m(05031024) 35.17725m(05031024)
3814220.5 | 14.18224 (05122324) 16.52467 (05122324) 15.22635
(05122324) 21.14590 (05122324) 33.98236m(05031024)
3814145.5 | 12.45469 (05122324) 15.11817 (05122324) 19.29497
(05122324) 24.45886 (05122324) 31.44533 (05122324)
3814070.5 | 9.94571 (05123024) 11.64009 (05123024) 14.25772
(05123024) 18.83797 (05123024) 25.73783 (05123024)
3813995.5 | 7.48751 (05112224) 9.69825 (05112224) 12.23277
(05112224) 15.32616 (05112224) 18.74488 (05112224)
3813920.5 | 9.10932 (05112224) 10.64647 (05112224) 12.30386
(05112224) 13.55322 (05112224) 15.06706 (05012624)
3813845.5 | 9.50303 (05112224) 10.16792 (05112224) 10.40800
(05012624) 12.14055 (05012624) 12.45229 (05012624)
3813770.5 | 8.19778 (05112224) 10.63340 (05012624) 11.87085
(05012624) 10.31276 (05012624) 8.82014 (05012624)
3813695.5 | 5.63284 (05012624) 9.97297 (05012624) 10.54543
(05012624) 7.57606 (05012624) 6.01250 (05122324)
3813620.5 | 5.64433 (05012624) 4.49144 (05012624) 6.20185
(05012624) 5.81450 (05012624) 6.08156 (05122324)
3813545.5 | 3.12987 (05010224) 1.02197 (05010224) 2.12418
(05020524) 3.48298 (05010124) 5.65012 (05122324)
3813470.5 | 1.71321 (05010224) 0.53993 (05020124) 0.79678
(05021024) 4.04967 (05010124) 5.30721 (05122324)
3813395.5 | 2.88444 (05010224) 2.46195 (05020524) 0.57043
(05062824) 2.24862 (05122324) 4.04900 (05122324)
3813320.5 | 2.80730 (05021024) 3.10550 (05021024) 2.67689
(05122324) 3.20906 (05122324) 3.31801 (05122324)
3813245.5 | 2.68075 (05021024) 3.15056 (05021024) 3.14270
(05122324) 3.89228 (05122324) 3.74983 (05012124)
3813170.5 | 2.83084 (05021024) 3.15279 (05122324) 3.26145
(05122324) 3.45618 (05122324) 3.26094 (05012124)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 349670.28	349745.28	349820.28	349895.28	349970.28
3816095.5	0.43749 (05042124)	0.49039 (05102424)	0.46504 (05061124)	0.47602 (05081024)	0.47863 (05022524)
3816020.5	0.46080 (05042124)	0.59592 (05081224)	0.65986 (05061124)	0.64754 (05061124)	0.50462 (05081324)
3815945.5	0.66048 (05081224)	0.73183 (05081224)	0.82951 (05061124)	0.79299 (05061124)	0.85660 (05102324)
3815870.5	0.96275 (05081224)	1.00216 (05081224)	1.04417 (05061124)	0.93785 (05061124)	1.35028 (05102324)
3815795.5	1.02333 (05081224)	1.12950 (05081224)	1.21167 (05061124)	1.22781 (05102324)	1.92829 (05102324)
3815720.5	0.67438 (05081224)	1.21804 (05081224)	1.31824 (05061124)	1.48774 (05102324)	1.69604 (05102324)
3815645.5	0.95330 (05081224)	1.31518 (05081224)	1.19072 (05061124)	1.07350 (05061124)	1.80684 (05102324)
3815570.5	0.88116 (05081224)	0.98568 (05081224)	0.96302 (05061124)	1.10468 (05061124)	1.17155 (05081324)
3815495.5	0.66862 (05081224)	0.62184 (05081224)	0.84228 (05061124)	1.01183 (05061124)	0.88936 (05081324)
3815420.5	0.55355 (05091124)	0.71478 (05081224)	0.81436 (05061124)	0.80995 (05061124)	0.82250 (05081324)
3815345.5	0.53018 (05111724)	0.68185 (05081224)	0.70383 (05081224)	0.68356 (05061124)	0.73828 (05081324)
3815270.5	0.61379 (05111724)	0.68586 (05081224)	0.64928 (05081224)	0.68399 (05061524)	0.77102 (05061524)
3815195.5	0.76760 (05111724)	0.82124 (05081224)	0.80484 (05081224)	0.79004 (05061524)	0.98288 (05061524)
3815120.5	0.78679 (05111724)	0.94001 (05081224)	0.95403 (05081224)	0.91991 (05061524)	1.17553 (05061524)
3815045.5	1.04920 (05111724)	0.99187 (05081224)	1.27851 (05061124)	1.15367 (05061524)	1.41940 (05061524)

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 3814970.5 |      1.23420 (05111724)      1.10238 (05081224)      1.49905
(05061124)      1.48549 (05061524)      1.64913 (05061524)
 3814895.5 |      1.60065 (05122624)      1.26135 (05081224)      1.80231
(05061124)      1.91688 (05061524)      1.71029 (05061524)
 3814820.5 |      2.42807 (05122624)      1.65389 (05010824)      2.33256
(05061124)      2.16975 (05061524)      1.80475 (05061524)
 3814745.5 |      3.19710 (05122624)      2.18332 (05010824)      3.18686
(05061124)      2.70163 (05061524)      2.63429 (05061524)
 3814670.5 |      4.09424 (05122624)      3.59084m(05092424)      4.40127
(05061124)      4.08170 (05061524)      4.12707 (05061524)
 3814595.5 |      7.40638m(05121724)      6.16209m(05092424)      6.01496
(05061124)      5.53026 (05061524)      5.24642 (05061524)
 3814520.5 |     11.09994 (05100824)     13.05842m(05121724)      6.59476
(05061124)      4.82143 (05061524)      4.76052 (05061524)
 3814445.5 |     27.18697m(05091224)     20.92911 (05100824)
10.58087m(05092424)      8.73650 (05061524)      6.54025 (05061524)
 3814370.5 |     38.92516m(05030724)     16.25229 (05022024)     10.60084
(05052924)     12.81354 (05061524)     12.62291 (05102224)
 3814295.5 |     26.93704 (05063024)     14.76903 (05022024)      8.72852
(05052924)     13.08071 (05102224)      7.85083 (05102224)
 3814220.5 |     14.53951 (05071424)      6.61897 (05071024)      7.94164
(05052924)     14.59802 (05102224)      7.13212 (05102224)
 3814145.5 |     31.94142 (05122324)      7.20047 (05070424)     10.83425
(05030824)      8.56839 (05111424)      6.75167 (05111424)
 3814070.5 |     36.92806 (05122324)     42.53657 (05010124)     51.26972
(05011824)     22.59126 (05122024)      6.11570 (05112124)
 3813995.5 |     22.74894 (05112224)     27.52956 (05011824)     66.99393
(05011824)     39.79729 (05010124)     42.99859 (05122024)
 3813920.5 |     16.17228 (05012624)     17.30350 (05011824)     33.28832
(05011824)     56.85862 (05011824)     57.85444 (05011824)
 3813845.5 |     11.12348 (05012624)     13.08493 (05011824)     21.56244
(05011824)     31.80741 (05011824)     39.93946 (05011824)
 3813770.5 |      7.93275 (05122324)     10.60687 (05011824)     16.06688
(05011824)     21.60139 (05011824)     26.12417 (05011824)
 3813695.5 |      6.85487 (05122324)      8.97443 (05011824)     12.75955
(05011824)     16.28103 (05011824)     18.74666 (05011824)
 3813620.5 |      5.89600 (05122324)      7.83697 (05011824)     10.47874
(05011824)     12.75508 (05011824)     14.39224 (05011824)
 3813545.5 |      5.24240 (05011824)      7.27064 (05011824)      8.93632
(05011824)     10.39946 (05011824)     11.46588 (05011824)
 3813470.5 |      5.22167 (05011824)      7.13586 (05011824)      8.09377
(05011824)      8.73946 (05011824)      9.45168 (05011824)
 3813395.5 |      4.41546 (05012124)      6.62091 (05011824)      7.41436
(05011824)      7.58593 (05011824)      8.08659 (05011824)
 3813320.5 |      1.75169 (05120424)      4.15451 (05120424)      6.95865
(05011824)      7.35982 (05011824)      7.70260 (05011824)
 3813245.5 |      4.22458 (05120424)      2.69840 (05120424)      3.55129
(05011824)      5.91613 (05011824)      7.07951 (05011824)
 3813170.5 |      4.08401 (05011824)      4.42657 (05011824)      3.94923
(05011824)      3.18792 (05011824)      5.85963 (05011824)
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**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350045.28	350120.28	350195.28	350270.28	350345.28
3816095.5	0.70149 (05081324)	0.69669m(05030724)	0.79656 (05031224)	0.52953 (05061524)	0.53550 (05061524)
3816020.5	0.71012 (05081324)	1.03859 (05031224)	1.27635 (05031224)	1.28225 (05031224)	1.07687 (05061524)
3815945.5	0.81368 (05081324)	1.56089 (05031224)	1.75720 (05031224)	1.95093 (05031224)	2.81054 (05020724)
3815870.5	1.42377 (05102324)	1.94698 (05031224)	2.59671 (05031224)	2.75748 (05031224)	4.16004 (05020724)
3815795.5	2.68605 (05102324)	3.30928 (05031224)	3.65129 (05031224)	3.53704 (05031224)	4.17449 (05020724)
3815720.5	2.14619 (05102324)	4.04547 (05031224)	4.76387 (05031224)	4.37923 (05020724)	4.64076 (05020724)
3815645.5	2.66887 (05102324)	4.11023 (05031224)	4.75180 (05031224)	5.08450 (05020724)	4.75924 (05020724)
3815570.5	2.19975 (05102324)	2.96647 (05031224)	2.54320 (05031224)	4.74053 (05020724)	4.40764 (05020724)
3815495.5	1.01919 (05081324)	1.65083 (05031224)	1.18887 (05061524)	1.93592 (05061524)	2.87837m(05050524)
3815420.5	0.99601 (05061524)	1.14973 (05061524)	0.97733 (05061524)	1.63411 (05061524)	1.92172m(05050524)
3815345.5	0.95334 (05061524)	0.95255 (05061524)	0.84432 (05061524)	0.99263 (05061524)	1.40449m(05050524)
3815270.5	0.84272 (05061524)	0.77792 (05061524)	0.99689 (05061524)	1.12598 (05061524)	1.13827 (05061524)
3815195.5	1.01121 (05061524)	0.76131 (05060524)	0.72967 (05061524)	0.83369 (05061524)	0.83251 (05102224)
3815120.5	1.12447 (05061524)	0.84324 (05061524)	0.90057 (05061524)	0.64877 (05102224)	0.82460 (05102224)
3815045.5	1.26003 (05061524)	0.97240 (05061524)	0.82776 (05061524)	0.96273 (05102224)	1.10390 (05110224)

3814970.5	1.51722	(05061524)	0.93640	(05061624)	0.93520
(05061524)	1.02534	(05102224)	1.40554	(05110224)	
3814895.5	1.15249	(05060524)	0.96666	(05061624)	0.97754
(05102224)	1.33397	(05102224)	1.61785	(05110224)	
3814820.5	1.41344	(05061524)	1.21345	(05061624)	1.26415
(05102224)	1.60434	(05110224)	1.66394	(05110224)	
3814745.5	2.24559	(05061524)	1.68060	(05102224)	1.55164
(05110224)	1.75656	(05110224)	1.49207	(05110224)	
3814670.5	3.24927	(05061524)	2.32652	(05102224)	2.11515
(05102224)	1.68498	(05110224)	1.56847	(05101424)	
3814595.5	3.80931	(05061524)	2.80279	(05102224)	2.13437
(05102224)	1.81157	(05101424)	1.78071	(05101424)	
3814520.5	3.36961	(05102224)	2.90940	(05102224)	2.28953
(05101424)	1.91116	(05101424)	1.68616	(05101424)	
3814445.5	5.71945	(05102224)	3.01732	(05101424)	2.51988
(05101424)	2.54070	(05111424)	3.07325	(05111424)	
3814370.5	7.84311	(05060524)	4.56230	(05111424)	4.00094
(05111424)	4.24158	(05111424)	5.04771	(05111424)	
3814295.5	10.95036	(05060524)	6.27883	(05111424)	4.75094
(05111424)	4.97207	(05111424)	9.21056	(05101824)	
3814220.5	18.23186	(05101824)	7.39698	(05112324)	5.25218
(05112324)	4.10229	(05112324)	11.41724	(05021424)	
3814145.5	38.26717	(05021424)	38.10930	(05021424)	6.56915
(05011124)	7.70101	(05011124)	5.54987	(05011124)	
3814070.5	21.34240	(05112124)	47.13314	(05011324)	8.04253
(05011124)	6.93629	(05011124)	6.23899	(05011124)	
3813995.5	95.77670	(05112024)	43.31871	(05112024)	37.26752
(05111824)	29.61880	(05103124)	4.46667	(05120824)	
3813920.5	80.32371	(05112024)	69.08907	(05112024)	44.43439
(05112024)	5.60907	(05020924)	5.01932	(05103124)	
3813845.5	52.77127	(05122024)	59.31756	(05112024)	32.96760
(05112024)	25.82082	(05112024)	43.19622	(05111824)	
3813770.5	32.77552	(05122024)	41.80907	(05122024)	39.18860
(05112024)	44.89366	(05112024)	34.73437	(05112024)	
3813695.5	22.43341	(05013124)	33.02367	(05122024)	32.48850
(05122024)	34.54635	(05112024)	35.09071	(05112024)	
3813620.5	17.10405	(05013124)	20.33497	(05013124)	24.92187
(05122024)	26.10369	(05122024)	27.76524	(05112024)	
3813545.5	12.53530	(05013124)	16.00676	(05013124)	18.80739
(05122024)	21.05684	(05122024)	20.00899	(05122024)	
3813470.5	9.86452	(05011824)	12.68652	(05013124)	14.62880
(05013124)	17.16871	(05122024)	17.73648	(05122024)	
3813395.5	8.41410	(05011824)	10.05295	(05013124)	12.23651
(05013124)	13.75690	(05122024)	15.35176	(05122024)	
3813320.5	7.37916	(05011824)	7.96955	(05013124)	10.10433
(05013124)	11.21115	(05013124)	12.89013	(05122024)	
3813245.5	7.01901	(05011824)	6.79919	(05013124)	8.32459
(05013124)	9.64525	(05013124)	10.59730	(05122024)	
3813170.5	6.74332	(05011824)	6.23488	(05011824)	7.02100
(05013124)	8.30857	(05013124)	8.98363	(05013124)	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350420.28	350495.28	350570.28	350645.28	350720.28
3816095.5	1.03216 (05020724)	0.64213m(05050524)	0.74874m(05050524)	0.40269 (05061524)	0.65675 (05012624)
3816020.5	1.05606 (05020724)	1.36978 (05060224)	1.28719m(05050524)	0.96887 (05012624)	1.15694 (05102224)
3815945.5	3.31548 (05020724)	2.11908 (05060224)	2.30481m(05050524)	1.92722 (05012624)	3.28655 (05081524)
3815870.5	4.02492 (05020724)	3.23091 (05102824)	3.41271 (05102824)	2.61004 (05081524)	4.54389 (05102824)
3815795.5	3.90531 (05020724)	4.58302 (05102824)	4.12997 (05102824)	4.65033 (05102824)	5.51836 (05102824)
3815720.5	4.61078 (05102824)	6.73820 (05102824)	6.97029 (05102824)	3.88799 (05102824)	6.32536 (05102824)
3815645.5	5.86486 (05102824)	8.17622 (05102824)	8.99011 (05102824)	7.90972 (05102824)	6.60363 (05102824)
3815570.5	4.03593 (05102824)	7.06921 (05102824)	9.06377 (05102824)	7.08691 (05102824)	6.28727 (05092124)
3815495.5	1.49988m(05050524)	3.45645 (05102224)	4.62659 (05102224)	5.49097 (05092124)	6.06872 (05092124)
3815420.5	2.65760m(05050524)	4.29005 (05102224)	4.69615 (05102224)	5.08349 (05120724)	6.48756 (05061824)
3815345.5	2.20178 (05102224)	2.77321 (05102224)	3.04605 (05102224)	5.47615 (05120724)	4.21926 (05051224)
3815270.5	1.23398 (05102224)	1.05219 (05110224)	1.34033 (05110224)	2.11356 (05051224)	1.16973 (05110224)
3815195.5	0.93274 (05110224)	1.29699 (05110224)	1.43946 (05110224)	1.29074 (05110224)	0.94891 (05110224)
3815120.5	1.21800 (05110224)	1.46883 (05110224)	1.40736 (05110224)	1.08523 (05110224)	0.83422 (05101424)
3815045.5	1.45866 (05110224)	1.50945 (05110224)	1.23356 (05110224)	0.87174 (05101424)	0.84713 (05101424)

3814970.5 | 1.58345 (05110224) 1.38742 (05110224) 0.97686
(05101424) 0.94480 (05101424) 0.80598 (05101424)
3814895.5 | 1.53512 (05110224) 1.13948 (05101424) 1.08199
(05101424) 1.05168 (05120324) 1.09877 (05120324)
3814820.5 | 1.30163 (05110224) 1.25852 (05101424) 1.52454
(05120324) 2.33409 (05120324) 4.04163 (05120324)
3814745.5 | 1.28121 (05101424) 1.20221 (05101424) 0.97420
(05101424) 0.95386 (05120324) 0.97492 (05103124)
3814670.5 | 1.46440 (05101424) 1.12089 (05101424) 1.04848
(05103124) 1.69132 (05120324) 2.58226 (05120324)
3814595.5 | 1.65431 (05120324) 2.29656 (05120324) 1.81702
(05111424) 2.81175 (05111424) 11.83037 (05102824)
3814520.5 | 4.03428 (05120324) 6.44787 (05102824) 7.60144
(05102824) 4.00024 (05111424) 13.62467 (05102824)
3814445.5 | 3.34813 (05111424) 4.20663 (05111424) 11.76155
(05102824) 11.09687 (05102824) 16.31382 (05102824)
3814370.5 | 4.50135 (05111424) 2.91720 (05111424) 3.01608
(05111424) 9.27955 (05110224) 6.26950 (05121824)
3814295.5 | 17.28367 (05102924) 12.18302 (05101824) 7.86032
(05101824) 8.85573 (05101824) 7.82650 (05101824)
3814220.5 | 22.60547 (05021424) 29.15493 (05021424) 24.80686
(05021424) 16.99840 (05021424) 3.46318 (05010524)
3814145.5 | 29.64659 (05021424) 42.59281 (05021424) 34.95365
(05021424) 24.22779 (05021424) 28.18871 (05021424)
3814070.5 | 49.28763m(05103024) 45.08048m(05103024) 34.04741
(05021424) 32.14442 (05021424) 30.04472 (05021424)
3813995.5 | 47.76408m(05103024) 45.09835m(05103024)
37.92715m(05103024) 28.61349m(05103024) 23.44294 (05021424)
3813920.5 | 22.89203 (05103124) 18.91332 (05103124)
35.06566m(05103024) 30.16104m(05103024) 23.97179m(05103024)
3813845.5 | 15.73914 (05103124) 22.91250 (05103124) 25.79912
(05103124) 15.62843 (05103124) 27.76450m(05103024)
3813770.5 | 37.04144 (05120524) 33.01737 (05120524) 29.23105
(05103124) 20.36973 (05103124) 19.51338 (05103124)
3813695.5 | 30.12616 (05112024) 28.58982 (05120524) 19.24790
(05120524) 23.97599 (05103124) 23.78782 (05103124)
3813620.5 | 25.05245 (05112024) 24.62423 (05112024) 23.54060
(05112024) 23.14334 (05120524) 20.27708 (05120524)
3813545.5 | 20.98278 (05012324) 22.26570 (05012324) 19.57260
(05112024) 18.38176 (05112024) 17.63632 (05120524)
3813470.5 | 16.92171 (05012324) 17.94465 (05012324) 19.86937
(05012324) 17.97250 (05112024) 16.07443 (05112024)
3813395.5 | 15.09869 (05122024) 15.06811 (05012324) 16.13871
(05012324) 18.16697 (05012324) 15.34207 (05012324)
3813320.5 | 13.61681 (05122024) 12.90637 (05122024) 13.72324
(05012324) 15.64991 (05012324) 13.66802 (05012324)
3813245.5 | 11.94964 (05122024) 12.04121 (05122024) 11.16217
(05012324) 12.39538 (05012324) 14.46599 (05012324)
3813170.5 | 10.19509 (05122024) 10.92575 (05122024) 10.55673
(05122024) 10.39126 (05012324) 11.71149 (05012324)

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350795.28	350870.28	350945.28	351020.28	351095.28
3816095.5	2.63867 (05081524)	1.60734 (05102224)	1.03528 (05102224)	0.90931 (05102224)	2.05396 (05120724)
3816020.5	1.98997 (05102224)	3.06252 (05102224)	1.43265 (05102224)	2.84860 (05120724)	3.61720 (05120724)
3815945.5	2.94822 (05102224)	3.28617 (05092124)	2.56417 (05120724)	3.77260 (05120724)	4.29429 (05061824)
3815870.5	3.46064 (05102224)	3.69772 (05092124)	3.83993 (05120724)	4.51322 (05061824)	4.56395 (05061824)
3815795.5	5.39757 (05092124)	4.47249 (05092124)	4.64733 (05121224)	4.24077 (05061824)	4.39058 (05061824)
3815720.5	5.66310 (05092124)	4.97039 (05061824)	5.07880 (05061824)	4.76923 (05061824)	4.14193 (05061824)
3815645.5	5.52029 (05092124)	5.35772 (05061824)	5.33931 (05061824)	4.43987 (05061824)	3.60378 (05051224)
3815570.5	5.38647 (05061824)	5.25910 (05061824)	4.95823 (05061824)	4.03432 (05051224)	4.53159m(05042524)
3815495.5	6.20713 (05061824)	5.38447 (05061824)	4.24764 (05051224)	4.27982m(05042524)	4.44824 (05062024)
3815420.5	6.46670 (05061824)	5.34094 (05061824)	4.60441m(05042524)	4.72478 (05062024)	5.54454 (05062024)
3815345.5	6.20829 (05061824)	5.64357m(05042524)	6.06361 (05062024)	6.40560 (05062024)	6.69995 (05062024)
3815270.5	4.09412 (05051224)	6.28513m(05042524)	5.25123m(05042524)	8.98766 (05062024)	7.60666 (05062024)
3815195.5	2.73024 (05102724)	3.83409 (05102724)	4.77636 (05102724)	5.92053 (05062024)	9.57273 (05062024)
3815120.5	1.04919 (05102224)	1.18622 (05102224)	1.20392 (05120324)	1.47858 (05120324)	4.13040 (05120224)
3815045.5	0.73435 (05101424)	0.97392 (05120324)	1.41593 (05120324)	3.65154 (05120224)	3.47635 (05120224)

3814970.5 | 1.14514 (05120324) 1.09072 (05120324) 0.89886 (05120324) 1.33399 (05120324) 3.21968 (05120324)
3814895.5 | 1.89546 (05120324) 3.37427 (05120324) 1.63766 (05120324) 2.79224 (05120324) 4.67525 (05102824)
3814820.5 | 5.06235 (05120324) 6.44257 (05102824) 4.34415 (05102824) 3.44323 (05102824) 8.25724 (05102824)
3814745.5 | 4.30122 (05120324) 9.49556 (05102824) 9.64510 (05102824) 8.50769 (05102824) 4.95123 (05102824)
3814670.5 | 2.49407 (05111424) 9.28309 (05102824) 8.52875 (05102824) 9.62578 (05102824) 10.62181 (05102824)
3814595.5 | 9.25973 (05102824) 11.04400 (05102824) 8.95963 (05102824) 7.33184 (05021324) 10.70639 (05102824)
3814520.5 | 16.58891 (05102824) 14.18834 (05102824) 12.55831 (05102824) 12.32663 (05010124) 7.55091 (05110224)
3814445.5 | 10.17789 (05110224) 8.12087 (05110224) 13.50024 (05010124) 10.15937 (05110224) 11.62013 (05012724)
3814370.5 | 16.75649 (05110224) 16.99908 (05012724) 16.12699 (05012724) 12.09931 (05012724) 12.34521 (05012724)
3814295.5 | 17.40925 (05110224) 18.41638 (05110224) 13.73012 (05110224) 12.55099 (05012724) 12.00654 (05012724)
3814220.5 | 5.83318 (05010524) 19.78103 (05110224) 16.94220 (05110224) 12.82189 (05110224) 11.63141 (05110224)
3814145.5 | 14.57505 (05021424) 16.61516 (05021424) 17.95112 (05021424) 16.94364 (05021424) 12.58502 (05021424)
3814070.5 | 27.18182 (05021424) 25.08727 (05021424) 18.21191 (05021424) 20.39221 (05021424) 15.52272 (05021424)
3813995.5 | 23.61096 (05021424) 20.25045 (05021424) 18.88710 (05021424) 19.44988 (05021424) 17.35105 (05021424)
3813920.5 | 20.19817m(05103024) 17.33360 (05102924) 15.78533 (05102924) 14.91047 (05021424) 14.32589 (05021424)
3813845.5 | 23.23509m(05103024) 18.83052m(05103024) 16.40112m(05103024) 14.16206m(05103024) 12.76810 (05102924)
3813770.5 | 24.07764m(05103024) 22.46298m(05103024) 19.37052m(05103024) 15.49681m(05103024) 13.61209m(05103024)
3813695.5 | 18.04423m(05103024) 17.42600m(05103024) 16.59417m(05103024) 15.33639m(05103024) 14.15611m(05103024)
3813620.5 | 16.05615 (05103124) 14.77811 (05103124) 14.04977m(05103024) 13.95822m(05103024) 13.53101m(05103024)
3813545.5 | 14.41923 (05120524) 13.54638 (05103124) 12.95076 (05103124) 12.09549 (05103124) 11.75395m(05103024)
3813470.5 | 13.47524 (05120524) 12.27740 (05120524) 11.67200 (05120524) 11.36569 (05103124) 10.85708 (05103124)
3813395.5 | 12.65353 (05112224) 11.43249 (05112224) 10.64333 (05120524) 10.28154 (05120524) 9.98205 (05103124)
3813320.5 | 11.31388 (05112224) 10.74396 (05112224) 10.28437 (05112224) 9.41237 (05112224) 9.09244 (05120524)
3813245.5 | 11.38423 (05012324) 9.54520 (05012324) 9.56460 (05112224) 9.30211 (05112224) 8.65673 (05112224)
3813170.5 | 11.31863 (05012324) 9.96606 (05012324) 8.56485 (05012324) 8.57773 (05112224) 8.46005 (05112224)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** 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)
350508.88	3814829.88	1.32236	(05102224)	350283.70	3815266.49	1.12882	(05061524)
350539.82	3814604.70	1.50946	(05111424)	350467.63	3814245.45	21.08882	(05021424)
350008.68	3813941.20	85.15401	(05112024)	350147.91	3813936.04	75.66461	(05112024)
350557.01	3814453.44	12.07815	(05102824)	349200.78	3815251.02	1.01961	(05122624)
349173.28	3815257.89	0.86513	(05110924)	348862.58	3814174.11	6.33367	(05123024)
348862.58	3815183.55	1.24211	(05010424)	350494.71	3815179.68	1.33946	(05110224)
350486.97	3814363.62	2.91936	(05111424)	350216.24	3814363.62	4.14160	(05111424)
350216.24	3814193.45	4.97499	(05112324)	349991.92	3813969.12	70.32275	(05122024)
349794.67	3813961.39	37.22162	(05011824)	349597.42	3814065.81	25.50201	(05123024)
349121.71	3814085.15	7.90808	(05123024)				

**MODELOPTs: RegDFAULT CONC   ELEV

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

** 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      22.15581 AT (  349820.28,  3814070.46, 376.60,   524.00,    0.00)  GC  UCART1
          2ND HIGHEST VALUE IS      21.69733 AT (  350045.28,  3813995.46, 379.10,   524.00,    0.00)  GC  UCART1
          3RD HIGHEST VALUE IS      16.42705 AT (  349670.28,  3814370.46, 390.90,   524.00,    0.00)  GC  UCART1
          4TH HIGHEST VALUE IS      16.33216 AT (  350008.68,  3813941.20, 374.50,   524.00,    0.00)  DC
          5TH HIGHEST VALUE IS      14.90938 AT (  350147.91,  3813936.04, 378.90,   520.00,    0.00)  DC
          6TH HIGHEST VALUE IS      14.82228 AT (  350120.28,  3814070.46, 390.30,   520.00,    0.00)  GC  UCART1
          7TH HIGHEST VALUE IS      14.61443 AT (  350045.28,  3813920.46, 370.90,   524.00,    0.00)  GC  UCART1
          8TH HIGHEST VALUE IS      14.57565 AT (  349595.28,  3814295.46, 383.90,   524.00,    0.00)  GC  UCART1
          9TH HIGHEST VALUE IS      14.44687 AT (  349991.92,  3813969.12, 381.07,   520.00,    0.00)  DC
         10TH HIGHEST VALUE IS      13.90402 AT (  349745.28,  3814070.46, 386.70,   524.00,    0.00)  GC  UCART1

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

*** THE SUMMARY OF HIGHEST 24-HR
RESULTS ***

** CONC OF PM_10 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 95.77670 ON 05112024: AT (350045.28, 3813995.46, 379.10, 524.00, 0.00) GC	UCART1	

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

**MODELOPTs: RegDFAULT CONC ELEV

*** 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 204 Informational Message(s)

A Total of 8760 Hours Were Processed

A Total of 0 Calm Hours Identified

A Total of 204 Missing Hours Identified (2.33 Percent)

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

******** WARNING MESSAGES ********
SO W320 45 VPARM:Input Parameter May Be Out-of-Range for Parameter
QS
SO W320 46 VPARM:Input Parameter May Be Out-of-Range for Parameter
QS

****
*** AERMOD Finishes Successfully ***
****

```
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 8.2.0
** Lakes Environmental Software Inc.
** Date: 6/5/2014
** File:
C:\AERMOD\LosValles\LosVallesNOx\LosVallesCO\LosVallesPM10\LosVallesPM25\LosVall
esPM25.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\AERMOD\LosValles\LosVallesNOx\LosVallesCO\LosVallesPM10\LosValles
   MODELOPT DFAULT CONC
   AVERTIME 24 PERIOD
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL LosVallesPM25.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     349887.570  3814179.790      385.830
** DESCRSRC Grading
   LOCATION VOL2         VOLUME     349370.560  3814249.570      383.120
** DESCRSRC Paving
   LOCATION VOL3         VOLUME     349694.090  3814627.020      410.120
** DESCRSRC Trenching
   LOCATION AREA1        AREA       349729.250  3814023.200      371.310
** DESCRSRC Grading
** Source Parameters **
   SRCPARAM VOL1               0.2     3.000    73.026     1.000
   SRCPARAM VOL2               0.0     3.000    67.126     1.000
   SRCPARAM VOL3               0.0     3.000    68.600     1.000
   SRCPARAM AREA1        1.2581E-06     3.000   316.240   314.170     0.000
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
```

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RE STARTING
   INCLUDED LosVallesPM25.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE met\burk6.sfc
   PROFFILE met\burk6.PFL
   SURFDATA 0 2005
   UAIRDATA 3190 2005
   SITEDATA 99999 2005
   PROFBASE 175.0 METERS
   STARTEND 2005 1 1 1 2005 12 31 24
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST LOSVALLESPM25.AD\24H1GALL.PLT 31
   PLOTFILE PERIOD ALL LOSVALLESPM25.AD\PE00GALL.PLT 32
   SUMMFILE LosVallesPM25.sum
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 SO W320      45  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS
 SO W320      46  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS

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

```
 *** AERMOD - VERSION  12345 ***   ***
C:\AERMOD\LosValles\LosVallesNOx\LosVallesCO\LosVallesPM10\LosValles ***
06/05/14
                                    ***
***        15:48:34

PAGE   1
 **MODELOPTs:  RegDFAULT CONC                                                  ELEV


                                             ***     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 RURAL Dispersion Only.

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.

 **Model Assumes No FLAGPOLE Receptor Heights.

 **Model Calculates  1 Short Term Average(s) of:  24-HR
     and Calculates PERIOD Averages

 **This Run Includes:      4 Source(s);       1 Source Group(s); and    1619
Receptor(s)

 **The Model Assumes A Pollutant Type of:  PM_2.5

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

 **Output Options Selected:
          Model Outputs Tables of PERIOD 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) = 175.00 ; 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 = 3.7 MB of RAM.

**Detailed Error/Message File: LosVallesPM25.err
**File for Summary of Results: LosVallesPM25.sum

**MODELOPTs: RegDFAULT CONC ELEV

*** 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	EMISSION RATE SCALAR VARY BY
VOL1	0	0.20000E+00	349887.6	3814179.8	385.8	3.00	73.03	1.00	NO	
VOL2	0	0.00000E+00	349370.6	3814249.6	383.1	3.00	67.13	1.00	NO	
VOL3	0	0.00000E+00	349694.1	3814627.0	410.1	3.00	68.60	1.00	NO	

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. OF AREA (DEG.)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
AREA1	0	0.12581E-05	349729.2	3814023.2	371.3	3.00	316.24	314.17	0.00	0.00	NO	

**MODELOPTs: RegDFAULT CONC ELEV

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
ALL	VOL1 , VOL2 , VOL3 , AREA1 ,

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

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

348170.3, 348245.3, 348320.3, 348395.3, 348470.3, 348545.3,
348620.3, 348695.3, 348770.3, 348845.3,
348920.3, 348995.3, 349070.3, 349145.3, 349220.3, 349295.3,
349370.3, 349445.3, 349520.3, 349595.3,
349670.3, 349745.3, 349820.3, 349895.3, 349970.3, 350045.3,
350120.3, 350195.3, 350270.3, 350345.3,
350420.3, 350495.3, 350570.3, 350645.3, 350720.3, 350795.3,
350870.3, 350945.3, 351020.3, 351095.3,

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

3813170.5, 3813245.5, 3813320.5, 3813395.5, 3813470.5, 3813545.5,
3813620.5, 3813695.5, 3813770.5, 3813845.5,
3813920.5, 3813995.5, 3814070.5, 3814145.5, 3814220.5, 3814295.5,
3814370.5, 3814445.5, 3814520.5, 3814595.5,
3814670.5, 3814745.5, 3814820.5, 3814895.5, 3814970.5, 3815045.5,
3815120.5, 3815195.5, 3815270.5, 3815345.5,
3815420.5, 3815495.5, 3815570.5, 3815645.5, 3815720.5, 3815795.5,
3815870.5, 3815945.5, 3816020.5, 3816095.5,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	473.20	460.50	461.30	472.50	488.90	483.80	480.90	493.00	487.20
3816020.46	460.70	456.40	459.60	478.20	482.60	482.70	467.70	489.70	476.70
3815945.46	454.90	454.30	459.70	477.60	470.30	479.70	461.70	479.50	468.40
3815870.46	449.30	450.00	453.30	457.60	461.50	465.80	456.80	463.90	462.60
3815795.46	447.90	447.20	448.00	449.80	457.90	450.10	450.20	455.10	456.00
3815720.46	443.50	444.90	447.90	458.90	460.90	443.30	447.00	450.10	451.30
3815645.46	442.20	441.40	445.00	456.70	455.70	440.90	443.30	443.50	450.60
3815570.46	445.80	438.00	441.50	456.50	452.20	433.40	440.10	453.20	465.70
3815495.46	446.40	435.80	441.00	460.90	439.60	434.90	446.40	464.00	477.90
3815420.46	435.50	433.00	442.70	460.10	432.60	434.20	451.80	466.20	455.00
3815345.46	432.00	429.60	442.10	452.30	427.20	434.10	443.40	441.70	451.60
3815270.46	427.20	427.30	440.90	440.80	422.60	429.70	441.30	457.80	474.20
3815195.46	423.40	424.00	432.50	438.90	420.10	421.20	430.50	450.20	468.80
3815120.46	420.10	422.00	428.30	438.40	427.20	414.40	422.50	434.00	451.60
3815045.46	416.90	418.60	421.80	429.50	427.60	410.70	414.40	420.70	436.20
3814970.46	415.70	419.80	426.90	432.40	434.80	412.80	408.60	418.90	431.60
3814895.46	431.90	435.20	444.00	438.40	431.30	418.80	403.60	406.20	415.50
3814820.46	429.20	425.60	436.80	427.20	423.30	421.60	402.20	402.70	414.50

3814745.46	415.60	411.60	420.40	414.20	414.30	417.00	403.20	400.80	402.20
3814670.46	402.20	402.60	407.60	410.40	403.70	402.40	397.10	395.30	398.10
3814595.46	399.20	396.10	393.90	395.80	399.80	393.00	392.60	393.00	398.60
3814520.46	397.70	395.20	392.10	391.10	390.40	388.10	388.20	388.30	403.30
3814445.46	396.40	394.20	392.00	391.00	389.20	387.10	385.90	385.60	391.40
3814370.46	404.00	397.00	394.70	392.30	388.60	387.90	386.20	384.00	383.20
3814295.46	422.40	410.90	401.90	394.90	394.00	391.70	387.00	384.50	382.90
3814220.46	430.30	413.50	404.10	406.70	403.00	400.10	390.40	386.10	382.60
3814145.46	419.10	413.30	419.50	427.40	420.90	402.90	393.80	386.50	384.20
3814070.46	418.60	432.90	452.10	446.80	424.20	403.10	395.20	396.40	386.50
3813995.46	437.90	454.80	469.40	447.60	431.20	411.40	408.70	404.50	393.10
3813920.46	421.60	429.20	436.50	467.70	439.20	419.80	423.60	415.40	402.00
3813845.46	406.90	412.90	432.60	456.50	447.60	446.90	436.80	428.00	413.20
3813770.46	402.70	404.70	413.90	434.30	429.90	433.20	429.60	425.20	409.90
3813695.46	396.10	402.30	416.70	423.90	417.90	415.80	409.20	406.40	392.80
3813620.46	393.70	396.60	409.10	420.60	411.40	403.50	398.80	394.50	395.90
3813545.46	394.30	408.10	423.50	425.00	409.80	403.70	407.10	397.80	401.70
3813470.46	404.30	421.70	412.10	412.50	415.10	420.70	419.90	403.60	408.30
3813395.46	398.10	404.00	397.20	400.40	403.90	419.00	422.90	411.50	420.80
3813320.46	386.70	390.40	393.30	395.10	403.90	407.80	424.70	429.30	427.30
3813245.46	391.80	393.50	399.40	406.80	423.60	427.90	435.80	447.70	442.10
3813170.46	400.50	405.00	415.00	425.60	429.50	423.60	442.20	446.30	429.20

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	487.70	509.30	487.20	504.50	495.50	509.20	498.40	475.30	487.10
3816020.46	487.40	501.20	479.60	494.80	483.50	496.40	476.20	467.40	483.20
3815945.46	474.90	478.50	470.60	490.40	471.80	494.00	475.10	459.60	473.90
3815870.46	465.10	467.50	468.80	469.10	464.00	471.50	470.20	455.20	449.70
3815795.46	458.40	464.00	458.80	458.10	458.00	461.60	463.80	462.60	449.70
3815720.46	456.70	457.50	449.80	452.30	454.10	455.60	458.30	456.70	447.00
3815645.46	456.00	461.00	450.70	447.60	450.10	452.20	459.00	462.70	457.70
3815570.46	465.80	464.80	452.30	442.90	447.60	458.10	477.00	483.20	475.50
3815495.46	479.80	467.10	459.70	440.30	449.90	464.30	473.40	475.70	499.20
3815420.46	475.80	467.70	448.20	435.70	443.10	450.00	461.70	471.00	485.90
3815345.46	469.90	462.00	441.20	436.80	457.20	476.30	475.40	503.50	504.10
3815270.46	457.90	453.10	439.50	430.90	453.90	458.70	472.00	500.70	479.80
3815195.46	446.30	441.80	424.60	435.80	443.50	457.00	471.90	487.10	464.70
3815120.46	435.20	429.10	423.50	431.20	442.10	460.80	474.00	463.90	450.50
3815045.46	430.40	420.90	423.40	444.90	443.70	448.80	454.70	447.10	438.80
3814970.46	433.00	412.60	414.50	422.10	435.40	457.90	442.40	432.40	433.10
3814895.46	422.50	410.20	417.90	430.00	441.50	444.90	432.60	421.40	441.10
3814820.46	408.20	403.40	411.60	421.90	418.40	423.30	424.20	417.80	428.30

3814745.46	|	401.70	402.80	419.90	412.50	415.60	416.60	412.60	417.10	449.50
3814670.46	|	397.40	402.40	410.70	406.70	402.70	406.10	404.40	413.90	432.00
3814595.46	|	398.90	415.30	408.70	395.70	394.00	399.40	398.30	405.20	415.20
3814520.46	|	412.60	409.40	404.40	393.80	387.40	395.60	394.30	397.90	416.00
3814445.46	|	394.70	392.90	396.10	396.30	385.10	387.30	394.30	407.00	414.30
3814370.46	|	383.60	380.70	378.60	381.30	381.90	389.20	404.80	402.90	404.10
3814295.46	|	381.10	378.90	378.00	377.60	379.10	379.10	391.60	391.90	401.40
3814220.46	|	380.20	378.60	377.00	376.10	375.10	373.80	374.50	380.40	391.20
3814145.46	|	381.10	378.60	376.10	374.60	372.70	371.40	369.70	370.00	375.10
3814070.46	|	380.20	379.00	378.00	374.60	372.10	369.70	368.20	367.00	366.80
3813995.46	|	386.60	387.20	382.20	374.00	371.10	369.00	367.70	366.60	365.10
3813920.46	|	389.50	380.00	378.20	375.80	372.90	371.40	369.20	365.70	365.00
3813845.46	|	388.30	383.50	383.00	389.80	393.00	387.70	372.90	369.00	366.00
3813770.46	|	385.80	407.60	409.30	403.60	403.70	386.20	373.70	372.50	369.10
3813695.46	|	398.00	409.10	437.20	423.30	404.70	386.20	384.50	377.60	370.40
3813620.46	|	396.40	411.00	425.80	430.70	420.10	409.40	384.80	386.50	381.40
3813545.46	|	405.70	402.90	411.80	420.20	404.90	394.00	396.60	409.90	400.30
3813470.46	|	418.00	411.90	409.90	419.10	413.60	401.50	404.90	426.70	408.00
3813395.46	|	427.80	431.90	414.90	415.60	404.40	409.50	393.90	397.50	410.90
3813320.46	|	440.90	429.00	421.20	416.20	396.90	391.90	386.50	385.60	395.40
3813245.46	|	423.40	413.80	403.20	406.40	403.80	404.00	391.50	378.70	387.90
3813170.46	|	419.60	410.80	402.60	394.00	397.40	388.90	383.70	380.00	376.00

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	480.80	484.10	464.80	456.50	458.10	459.40	457.40	435.00	446.90
3816020.46	460.80	461.90	462.90	447.80	442.20	436.30	449.80	436.40	427.80
3815945.46	453.30	443.60	447.80	441.40	434.50	428.90	427.00	432.00	420.70
3815870.46	452.10	440.50	435.80	431.60	427.50	423.70	419.50	420.20	417.50
3815795.46	441.20	438.00	434.20	429.20	423.80	418.20	414.50	410.40	408.40
3815720.46	444.60	452.50	448.30	428.30	422.40	415.80	417.00	414.50	405.20
3815645.46	450.30	459.60	436.90	427.30	427.10	424.80	416.60	411.50	406.10
3815570.46	456.60	459.20	439.60	438.60	436.00	426.00	424.90	415.00	413.00
3815495.46	470.00	468.20	450.50	466.60	443.80	432.40	442.00	433.70	424.00
3815420.46	485.80	486.80	482.20	458.10	449.10	449.60	458.50	440.80	438.50
3815345.46	518.10	506.80	505.40	477.20	472.70	477.40	486.10	458.50	464.40
3815270.46	498.00	488.80	497.60	493.90	510.40	497.60	496.10	492.80	497.50
3815195.46	468.40	483.80	486.10	471.20	483.30	491.50	472.30	479.60	510.80
3815120.46	456.50	471.50	494.50	461.60	467.40	484.90	463.10	478.30	499.50
3815045.46	449.10	467.80	470.10	468.20	449.80	467.10	455.00	476.30	490.00
3814970.46	464.40	468.80	447.60	465.40	446.30	449.20	454.00	467.40	499.10
3814895.46	450.50	449.70	436.50	458.90	441.30	437.30	466.60	504.50	513.10
3814820.46	451.10	442.20	428.20	441.00	432.60	441.40	475.50	488.70	481.30

3814745.46	|	461.30	449.00	426.80	431.60	423.20	437.30	452.70	457.70	455.40
3814670.46	|	430.40	420.40	424.30	419.60	415.60	423.00	430.00	437.40	442.80
3814595.46	|	419.60	407.70	406.00	410.10	410.10	418.70	425.50	431.40	441.80
3814520.46	|	420.90	401.90	402.40	400.80	411.80	440.00	442.30	451.30	450.00
3814445.46	|	415.90	396.50	393.00	397.70	407.60	418.40	432.50	426.30	452.40
3814370.46	|	400.50	386.90	390.90	404.40	426.50	415.70	412.00	426.90	421.60
3814295.46	|	391.10	383.90	397.40	417.30	408.00	391.70	412.90	414.40	426.10
3814220.46	|	386.90	381.00	404.40	418.40	405.40	386.80	411.50	400.20	419.60
3814145.46	|	376.60	378.10	390.60	400.90	386.20	392.30	414.80	396.00	397.10
3814070.46	|	369.60	373.60	372.40	386.70	376.60	381.90	402.40	401.40	390.30
3813995.46	|	365.10	364.70	365.20	365.80	367.70	389.80	394.70	379.10	395.60
3813920.46	|	364.00	363.10	362.10	360.40	362.10	369.60	378.60	370.90	380.20
3813845.46	|	363.60	360.80	359.60	358.10	357.00	362.20	363.50	371.50	375.60
3813770.46	|	363.60	360.10	357.70	356.20	355.10	357.00	359.00	363.00	379.20
3813695.46	|	364.10	361.10	357.60	355.10	354.00	354.60	355.30	382.30	375.00
3813620.46	|	374.60	370.30	357.70	355.10	352.70	351.10	352.70	354.70	353.50
3813545.46	|	393.50	374.30	362.40	359.70	353.70	349.70	349.50	348.60	348.60
3813470.46	|	389.40	378.60	368.10	368.20	358.90	350.10	347.60	346.10	346.10
3813395.46	|	400.00	386.40	386.00	377.00	363.40	352.50	349.20	347.40	344.60
3813320.46	|	389.80	391.60	403.30	393.10	377.50	364.10	360.30	349.80	343.00
3813245.46	|	377.40	381.30	381.90	400.40	396.20	382.20	366.00	359.00	352.60
3813170.46	|	377.30	368.10	370.20	384.20	392.00	396.90	381.90	369.20	356.30

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	435.70	453.50	453.60	426.90	443.30	434.90	459.60	441.80	402.90
3816020.46	426.70	424.60	426.40	425.80	419.00	418.80	428.70	420.40	413.40
3815945.46	420.70	416.40	409.40	404.10	409.00	405.20	409.50	397.50	404.20
3815870.46	413.70	409.80	400.50	395.40	400.90	398.10	404.00	388.00	396.50
3815795.46	407.40	404.50	401.00	393.70	390.50	391.60	389.00	384.70	381.70
3815720.46	401.50	399.80	396.60	390.40	386.20	385.20	390.40	380.00	377.70
3815645.46	402.30	395.70	393.10	388.20	383.90	378.70	376.80	371.70	369.30
3815570.46	414.50	400.30	395.90	395.90	386.30	378.40	380.40	372.20	366.50
3815495.46	435.70	417.20	407.90	420.20	402.90	392.00	385.20	376.80	370.50
3815420.46	451.10	424.10	417.60	407.90	400.10	394.20	386.10	380.40	374.20
3815345.46	471.30	449.50	425.00	414.10	411.90	406.70	393.00	389.80	377.40
3815270.46	461.80	443.30	429.10	432.70	446.80	425.50	408.30	424.60	401.40
3815195.46	490.70	464.90	452.50	458.40	482.80	464.90	450.30	425.10	407.00
3815120.46	476.70	481.40	478.70	468.50	462.70	478.20	464.90	442.60	423.40
3815045.46	481.70	459.00	459.80	468.90	446.30	477.00	471.20	441.60	437.20
3814970.46	472.20	474.20	444.10	459.20	434.40	458.50	442.60	449.50	423.20
3814895.46	481.00	458.50	456.60	435.20	429.70	434.30	427.50	425.90	414.20
3814820.46	474.20	455.80	441.90	438.40	426.80	419.40	412.00	403.50	399.40

3814745.46	471.60	468.30	476.20	469.10	450.30	443.40	432.20	433.10	405.60
3814670.46	445.90	466.20	455.80	441.40	445.40	449.10	423.70	415.40	418.60
3814595.46	449.70	460.30	439.60	426.30	420.00	439.90	417.50	394.70	398.60
3814520.46	454.20	461.40	429.60	411.80	404.10	403.00	409.00	385.50	374.60
3814445.46	453.50	456.80	438.00	425.80	414.80	396.90	388.40	380.60	395.10
3814370.46	451.80	421.50	411.00	411.80	428.80	415.70	399.50	403.80	380.80
3814295.46	440.40	417.20	402.50	393.70	398.20	403.40	401.00	401.80	381.70
3814220.46	423.80	427.40	402.60	387.80	382.00	382.20	386.50	413.60	406.70
3814145.46	420.20	409.90	414.50	394.40	375.10	366.90	385.40	378.20	398.50
3814070.46	409.50	410.40	410.00	379.70	371.70	361.30	365.30	368.30	368.70
3813995.46	387.70	397.20	410.40	379.80	367.80	367.50	358.40	350.50	360.10
3813920.46	392.00	408.60	409.10	388.50	389.10	362.60	360.10	346.20	338.50
3813845.46	394.80	397.20	380.50	401.00	396.90	384.10	389.10	364.60	357.60
3813770.46	381.20	377.50	382.60	375.80	379.70	381.50	395.60	392.70	364.90
3813695.46	361.80	367.20	370.80	362.70	367.80	387.30	382.60	372.80	349.10
3813620.46	355.30	359.10	366.30	358.30	362.70	368.00	375.70	362.30	336.90
3813545.46	348.60	349.90	349.60	353.10	364.90	357.80	383.40	358.90	332.50
3813470.46	346.10	345.30	344.40	347.10	347.10	366.60	367.70	360.10	345.20
3813395.46	344.70	342.90	341.60	341.60	341.30	350.00	369.90	380.70	344.30
3813320.46	343.00	340.70	339.20	339.10	339.90	341.90	361.40	353.50	345.30
3813245.46	342.20	339.60	338.10	338.00	338.00	336.90	337.90	363.60	337.20
3813170.46	346.10	341.50	338.20	336.70	336.90	335.70	334.10	347.00	340.90

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	418.40	427.80	424.70	407.00
3816020.46	399.80	416.10	400.50	392.70
3815945.46	390.40	402.30	392.80	375.90
3815870.46	388.50	394.20	374.20	371.90
3815795.46	384.40	376.00	385.30	366.70
3815720.46	376.80	376.10	366.90	365.90
3815645.46	369.60	369.90	364.20	356.80
3815570.46	363.80	365.10	363.60	365.00
3815495.46	364.50	358.80	356.60	356.80
3815420.46	366.70	358.30	355.50	350.20
3815345.46	368.50	366.60	359.50	351.40
3815270.46	382.90	386.40	367.50	355.60
3815195.46	401.50	392.00	387.50	377.40
3815120.46	418.80	419.20	414.10	391.90
3815045.46	425.90	416.10	398.80	399.40
3814970.46	422.80	425.70	419.20	404.50
3814895.46	404.80	418.20	409.90	403.50
3814820.46	396.00	404.80	409.00	395.30
3814745.46	393.60	385.40	396.60	404.80
3814670.46	397.50	397.60	385.60	375.40
3814595.46	386.20	391.80	393.80	379.30
3814520.46	366.80	365.90	375.80	387.60
3814445.46	389.80	372.30	356.30	376.90
3814370.46	372.10	372.50	350.00	361.10
3814295.46	369.20	350.60	346.20	356.10
3814220.46	370.90	367.50	345.80	338.50
3814145.46	391.50	364.20	372.50	346.10
3814070.46	380.70	386.70	375.80	349.00
3813995.46	348.70	348.50	361.30	356.40
3813920.46	338.30	335.60	335.70	336.40
3813845.46	339.20	335.40	327.20	326.70
3813770.46	364.90	359.80	335.40	323.40
3813695.46	342.50	338.10	322.60	320.10
3813620.46	327.30	320.20	318.70	318.10
3813545.46	325.30	319.10	318.00	318.00
3813470.46	320.20	317.20	317.00	317.00
3813395.46	319.60	317.60	317.00	317.00

3813320.46	319.60	318.10	317.00	316.00
3813245.46	319.60	316.20	316.00	316.00
3813170.46	320.00	316.00	316.00	315.90

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	760.00	760.00	760.00	760.00	609.00	609.00	609.00	609.00	609.00
3816020.46	760.00	760.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00
3815945.46	760.00	760.00	760.00	609.00	700.00	609.00	700.00	609.00	609.00
3815870.46	760.00	760.00	760.00	700.00	700.00	609.00	700.00	609.00	609.00
3815795.46	760.00	760.00	760.00	760.00	700.00	700.00	700.00	609.00	609.00
3815720.46	760.00	760.00	760.00	609.00	609.00	700.00	609.00	609.00	609.00
3815645.46	760.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00	609.00
3815570.46	700.00	760.00	700.00	609.00	609.00	700.00	609.00	609.00	609.00
3815495.46	496.00	700.00	609.00	463.00	609.00	609.00	609.00	585.00	482.00
3815420.46	700.00	700.00	574.00	465.00	609.00	609.00	609.00	482.00	609.00
3815345.46	496.00	609.00	482.00	465.00	609.00	609.00	609.00	609.00	585.00
3815270.46	496.00	574.00	482.00	481.00	609.00	609.00	585.00	481.00	481.00
3815195.46	496.00	496.00	482.00	481.00	609.00	609.00	609.00	481.00	481.00
3815120.46	496.00	496.00	482.00	481.00	482.00	609.00	609.00	524.00	481.00
3815045.46	496.00	495.00	482.00	481.00	481.00	609.00	609.00	585.00	524.00
3814970.46	495.00	481.00	481.00	481.00	481.00	574.00	609.00	574.00	524.00
3814895.46	452.00	452.00	452.00	452.00	481.00	481.00	585.00	585.00	524.00
3814820.46	452.00	452.00	452.00	452.00	481.00	481.00	574.00	574.00	524.00

3814745.46	452.00	452.00	452.00	481.00	481.00	481.00	524.00	524.00	524.00
3814670.46	524.00	475.00	475.00	481.00	481.00	524.00	524.00	524.00	524.00
3814595.46	527.00	524.00	481.00	481.00	481.00	524.00	524.00	524.00	524.00
3814520.46	527.00	524.00	481.00	481.00	481.00	524.00	524.00	524.00	524.00
3814445.46	527.00	524.00	517.00	481.00	481.00	524.00	524.00	524.00	524.00
3814370.46	524.00	524.00	475.00	475.00	481.00	481.00	524.00	524.00	524.00
3814295.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	524.00	524.00
3814220.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	524.00
3814145.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3814070.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813995.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813920.46	475.00	475.00	475.00	473.00	475.00	475.00	475.00	475.00	475.00
3813845.46	475.00	475.00	475.00	475.00	475.00	473.00	475.00	475.00	475.00
3813770.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813695.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813620.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813545.46	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00
3813470.46	475.00	473.00	475.00	475.00	475.00	473.00	464.00	475.00	473.00
3813395.46	475.00	475.00	475.00	475.00	475.00	464.00	464.00	464.00	464.00
3813320.46	504.00	504.00	504.00	504.00	504.00	504.00	464.00	464.00	464.00
3813245.46	504.00	504.00	504.00	504.00	464.00	464.00	464.00	464.00	464.00
3813170.46	504.00	504.00	504.00	464.00	464.00	504.00	464.00	464.00	504.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	585.00	524.00	585.00
3815495.46	479.80	609.00	609.00	609.00	609.00	609.00	585.00	524.00	524.00
3815420.46	480.00	574.00	609.00	609.00	609.00	609.00	585.00	524.00	524.00
3815345.46	481.00	524.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00
3815270.46	481.00	574.00	609.00	609.00	574.00	524.00	524.00	524.00	524.00
3815195.46	524.00	585.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00
3815120.46	585.00	609.00	609.00	609.00	524.00	524.00	524.00	524.00	524.00
3815045.46	524.00	609.00	609.00	524.00	524.00	524.00	524.00	524.00	524.00
3814970.46	524.00	609.00	609.00	585.00	524.00	524.00	524.00	524.00	524.00
3814895.46	524.00	585.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814820.46	524.00	585.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00

3814745.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814670.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814595.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814520.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814445.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814370.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814295.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814220.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814145.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3814070.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
3813995.46	475.00	475.00	475.00	524.00	524.00	524.00	524.00	524.00
3813920.46	475.00	475.00	475.00	524.00	524.00	524.00	524.00	524.00
3813845.46	475.00	475.00	475.00	475.00	473.00	441.00	524.00	524.00
3813770.46	475.00	475.00	441.00	441.00	441.00	447.00	520.00	520.00
3813695.46	475.00	473.00	439.00	441.00	441.00	464.00	447.00	520.00
3813620.46	475.00	464.00	441.00	441.00	441.00	441.00	464.00	443.00
3813545.46	473.00	473.00	464.00	441.00	464.00	464.00	443.00	432.00
3813470.46	464.00	464.00	464.00	443.00	443.00	464.00	441.00	432.00
3813395.46	464.00	464.00	464.00	464.00	464.00	432.00	504.00	441.00
3813320.46	464.00	464.00	464.00	464.00	504.00	504.00	504.00	504.00
3813245.46	504.00	504.00	504.00	504.00	504.00	504.00	504.00	504.00
3813170.46	504.00	504.00	504.00	504.00	504.00	504.00	504.00	504.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815495.46	524.00	524.00	609.00	524.00	609.00	609.00	609.00	609.00	609.00
3815420.46	524.00	524.00	524.00	524.00	585.00	557.00	524.00	557.00	557.00
3815345.46	524.00	524.00	524.00	524.00	524.00	524.00	519.00	524.00	524.00
3815270.46	524.00	524.00	524.00	524.00	513.00	513.00	516.00	516.00	516.00
3815195.46	524.00	524.00	524.00	524.00	524.00	519.00	524.00	520.00	516.00
3815120.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00	516.00
3815045.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3814970.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3814895.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814820.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00

3814745.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814670.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00
3814595.46	524.00	524.00	524.00	524.00	524.00	524.00	524.00	520.00
3814520.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814445.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814370.46	524.00	524.00	524.00	524.00	520.00	524.00	524.00	520.00
3814295.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814220.46	524.00	524.00	524.00	520.00	524.00	520.00	524.00	520.00
3814145.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3814070.46	524.00	524.00	524.00	524.00	524.00	520.00	520.00	520.00
3813995.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00
3813920.46	524.00	524.00	524.00	524.00	524.00	520.00	524.00	520.00
3813845.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3813770.46	524.00	524.00	524.00	524.00	524.00	524.00	520.00	520.00
3813695.46	520.00	520.00	524.00	524.00	524.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813545.46	432.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813470.46	432.00	441.00	520.00	520.00	520.00	520.00	520.00	520.00
3813395.46	432.00	432.00	432.00	432.00	520.00	520.00	520.00	520.00
3813320.46	504.00	432.00	403.30	405.00	432.00	504.00	520.00	520.00
3813245.46	504.00	504.00	504.00	405.00	405.00	405.00	482.00	482.00
3813170.46	504.00	504.00	504.00	504.00	405.00	405.00	405.00	409.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	609.00	609.00	609.00	609.00	609.00	609.00	579.00	579.00	609.00
3816020.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815495.46	579.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815420.46	524.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00	609.00
3815345.46	520.00	524.00	534.00	579.00	579.00	579.00	609.00	579.00	609.00
3815270.46	520.00	524.00	524.00	524.00	520.00	520.00	552.00	520.00	552.00
3815195.46	516.00	520.00	520.00	520.00	487.00	520.00	520.00	520.00	520.00
3815120.46	520.00	520.00	520.00	520.00	520.00	485.00	487.00	520.00	520.00
3815045.46	520.00	520.00	520.00	520.00	520.00	485.00	485.00	520.00	520.00
3814970.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814895.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814820.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

3814745.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814670.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814595.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814520.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3814445.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814370.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814295.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814220.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3814145.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3814070.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	524.00
3813995.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813920.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813845.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813770.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813695.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813545.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813470.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813395.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813320.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813245.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00
3813170.46	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

**MODELOPTs: RegDFAULT CONC ELEV

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	609.00	579.00	579.00	579.00
3816020.46	609.00	579.00	609.00	609.00
3815945.46	609.00	609.00	609.00	609.00
3815870.46	609.00	609.00	609.00	609.00
3815795.46	609.00	609.00	609.00	609.00
3815720.46	609.00	609.00	609.00	609.00
3815645.46	609.00	609.00	609.00	609.00
3815570.46	609.00	609.00	609.00	609.00
3815495.46	609.00	609.00	609.00	609.00
3815420.46	609.00	609.00	609.00	609.00
3815345.46	609.00	609.00	609.00	609.00
3815270.46	579.00	579.00	579.00	609.00
3815195.46	534.00	534.00	534.00	552.00
3815120.46	520.00	520.00	520.00	520.00
3815045.46	520.00	520.00	520.00	520.00
3814970.46	520.00	520.00	520.00	520.00
3814895.46	520.00	520.00	520.00	520.00
3814820.46	520.00	520.00	520.00	520.00
3814745.46	520.00	520.00	520.00	520.00
3814670.46	520.00	520.00	520.00	520.00
3814595.46	520.00	520.00	520.00	520.00
3814520.46	524.00	520.00	520.00	520.00
3814445.46	520.00	520.00	520.00	520.00
3814370.46	520.00	520.00	520.00	520.00
3814295.46	520.00	520.00	520.00	520.00
3814220.46	520.00	520.00	520.00	520.00
3814145.46	520.00	520.00	520.00	520.00
3814070.46	520.00	520.00	520.00	520.00
3813995.46	520.00	520.00	520.00	520.00
3813920.46	520.00	520.00	520.00	520.00
3813845.46	520.00	520.00	520.00	520.00
3813770.46	520.00	520.00	520.00	520.00
3813695.46	520.00	520.00	520.00	520.00
3813620.46	520.00	520.00	520.00	520.00
3813545.46	520.00	520.00	520.00	520.00
3813470.46	520.00	520.00	520.00	520.00
3813395.46	520.00	520.00	520.00	520.00

3813320.46	520.00	520.00	520.00	520.00
3813245.46	520.00	520.00	520.00	520.00
3813170.46	520.00	520.00	520.00	520.00

**MODELOPTs: RegDFAULT CONC ELEV

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

```
     ( 350508.9, 3814829.9,     424.8,     520.0,       0.0);         (
350283.7, 3815266.5,     441.1,     524.0,       0.0);
     ( 350539.8, 3814604.7,     430.8,     520.0,       0.0);         (
350467.6, 3814245.4,     385.7,     520.0,       0.0);
     ( 350008.7, 3813941.2,     374.5,     524.0,       0.0);         (
350147.9, 3813936.0,     378.9,     520.0,       0.0);
     ( 350557.0, 3814453.4,     397.3,     520.0,       0.0);         (
349200.8, 3815251.0,     455.4,     524.0,       0.0);
     ( 349173.3, 3815257.9,     461.5,     524.0,       0.0);         (
348862.6, 3814174.1,     380.0,     524.0,       0.0);
     ( 348862.6, 3815183.5,     439.9,     585.0,       0.0);         (
350494.7, 3815179.7,     481.9,     487.0,       0.0);
     ( 350487.0, 3814363.6,     425.7,     520.0,       0.0);         (
350216.2, 3814363.6,     442.9,     520.0,       0.0);
     ( 350216.2, 3814193.4,     425.3,     520.0,       0.0);         (
349991.9, 3813969.1,     381.1,     520.0,       0.0);
     ( 349794.7, 3813961.4,     363.8,     524.0,       0.0);         (
349597.4, 3814065.8,     372.8,     524.0,       0.0);
     ( 349121.7, 3814085.1,     372.9,     524.0,       0.0);
```

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
VOL1	349820.3	3814070.5	-28.63
VOL1	349895.3	3814070.5	-47.40
VOL1	349970.3	3814070.5	-19.91
VOL1	349745.3	3814145.5	-10.63
VOL1	349820.3	3814145.5	-81.46
VOL1	349895.3	3814145.5	-121.82
VOL1	349970.3	3814145.5	-67.45
VOL1	349745.3	3814220.5	-9.02
VOL1	349820.3	3814220.5	-78.38
VOL1	349895.3	3814220.5	-115.61
VOL1	349970.3	3814220.5	-64.84
VOL1	349820.3	3814295.5	-23.19
VOL1	349895.3	3814295.5	-41.08
VOL1	349970.3	3814295.5	-14.81
VOL2	349295.3	3814145.5	-15.85
VOL2	349370.3	3814145.5	-40.21
VOL2	349445.3	3814145.5	-16.17

	VOL2	349295.3	3814220.5
-63.61			
	VOL2	349370.3	3814220.5
-115.21			
	VOL2	349445.3	3814220.5
-64.13			
	VOL2	349295.3	3814295.5
-56.16			
	VOL2	349370.3	3814295.5
-98.43			
	VOL2	349445.3	3814295.5
-56.63			
	VOL2	349295.3	3814370.5
-1.91			
	VOL2	349370.3	3814370.5
-23.43			
	VOL2	349445.3	3814370.5
-2.20			
	VOL3	349595.3	3814520.5
-2.17			
	VOL3	349670.3	3814520.5
-38.30			
	VOL3	349745.3	3814520.5
-29.27			
	VOL3	349595.3	3814595.5
-43.76			
	VOL3	349670.3	3814595.5
-107.96			
	VOL3	349745.3	3814595.5
-87.35			
	VOL3	349820.3	3814595.5
-17.41			
	VOL3	349595.3	3814670.5
-39.55			
	VOL3	349670.3	3814670.5
-97.95			
	VOL3	349745.3	3814670.5
-80.35			
	VOL3	349820.3	3814670.5
-14.03			
	VOL3	349670.3	3814745.5
-26.68			
	VOL3	349745.3	3814745.5
-18.46			

**MODELOPTs: RegDFAULT CONC ELEV

*** 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
```

METEOROLOGICAL DATA PROCESSED BETWEEN START DATE: 2005 1 1 1
AND END DATE: 2005 12 31 24

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: RegDFAULT CONC ELEV

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

Surface file: met\burk6.sfc
Met Version: 12345
Profile file: met\burk6.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	-3.2	0.063	-9.000	-9.000	-999.	37.	7.1	0.53	1.00	1.00	0.90	285.	9.1	279.9	5.5
05	01	01	1	02	-2.6	0.063	-9.000	-9.000	-999.	37.	8.7	0.53	1.00	1.00	0.90	277.	9.1	279.9	5.5
05	01	01	1	03	-2.6	0.063	-9.000	-9.000	-999.	37.	8.7	0.53	1.00	1.00	0.90	335.	9.1	279.2	5.5
05	01	01	1	04	-2.6	0.063	-9.000	-9.000	-999.	37.	8.6	0.53	1.00	1.00	0.90	291.	9.1	278.8	5.5
05	01	01	1	05	-3.0	0.063	-9.000	-9.000	-999.	37.	7.4	0.53	1.00	1.00	0.90	334.	9.1	278.1	5.5
05	01	01	1	06	-0.5	0.028	-9.000	-9.000	-999.	11.	3.8	0.53	1.00	1.00	0.40	309.	9.1	278.8	5.5
05	01	01	1	07	-2.6	0.063	-9.000	-9.000	-999.	37.	8.6	0.53	1.00	1.00	0.90	313.	9.1	278.8	5.5
05	01	01	1	08	-0.4	0.028	-9.000	-9.000	-999.	11.	4.5	0.53	1.00	0.56	0.40	256.	9.1	279.2	5.5
05	01	01	1	09	0.1	0.128	0.022	0.005	4.	105.	-1838.7	0.53	1.00	0.33	0.90	298.	9.1	282.5	5.5
05	01	01	1	10	0.1	0.128	0.025	0.005	5.	105.	-1838.7	0.53	1.00	0.25	0.90	103.	9.1	286.4	5.5
05	01	01	1	11	0.1	0.310	0.027	0.005	7.	397.	-8888.0	0.53	1.00	0.22	2.20	136.	9.1	287.0	5.5
05	01	01	1	12	0.1	0.310	0.028	0.005	8.	397.	-8888.0	0.53	1.00	0.21	2.20	152.	9.1	287.0	5.5
05	01	01	1	13	0.1	0.254	0.029	0.005	9.	295.	-8888.0	0.53	1.00	0.21	1.80	187.	9.1	285.9	5.5
05	01	01	1	14	0.1	0.184	0.030	0.005	9.	182.	-5471.6	0.53	1.00	0.22	1.30	157.	9.1	287.0	5.5

```
 05 01 01   1 15    0.1  0.184  0.031  0.005   10.  181.  -5471.6  0.53   1.00
0.26    1.30  192.    9.1  286.4    5.5
 05 01 01   1 16    0.1  0.254  0.031  0.005   11.  294.  -8888.0  0.53   1.00
0.34    1.80  188.    9.1  285.9    5.5
 05 01 01   1 17   -4.9  0.092 -9.000 -9.000 -999.   88.     13.8  0.53   1.00
0.61    1.30  200.    9.1  285.4    5.5
 05 01 01   1 18   -2.6  0.063 -9.000 -9.000 -999.   37.      8.7  0.53   1.00
1.00    0.90  162.    9.1  284.9    5.5
 05 01 01   1 19   -3.0  0.063 -9.000 -9.000 -999.   37.      7.5  0.53   1.00
1.00    0.90  176.    9.1  284.9    5.5
 05 01 01   1 20   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  210.    9.1  284.2    5.5
 05 01 01   1 21   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  236.    9.1  284.2    5.5
 05 01 01   1 22   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  272.    9.1  283.8    5.5
 05 01 01   1 23   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  251.    9.1  283.1    5.5
 05 01 01   1 24   -0.4  0.028 -9.000 -9.000 -999.   11.      4.5  0.53   1.00
1.00    0.40  301.    9.1  282.5    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   279.9   99.0  -99.00  -99.00
 05 01 01 01    9.1 1  285.    0.90  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
```

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28	348545.28	348620.28	348695.28	348770.28
3816095.46	0.05169	0.06107	0.06017	0.05274	0.04684	0.04790	0.04833	0.04408	0.04687
3816020.46	0.06448	0.06898	0.06472	0.05211	0.05101	0.05103	0.05672	0.04915	0.05204
3815945.46	0.07588	0.07603	0.06801	0.05483	0.05952	0.05490	0.06399	0.05464	0.05920
3815870.46	0.09082	0.08864	0.08115	0.07391	0.06936	0.06576	0.07271	0.06590	0.06593
3815795.46	0.09859	0.10025	0.09743	0.09192	0.07739	0.08872	0.08700	0.07826	0.07568
3815720.46	0.11665	0.11200	0.10317	0.08113	0.07843	0.11121	0.09971	0.09149	0.08730
3815645.46	0.12815	0.13006	0.11748	0.08930	0.09085	0.12714	0.11689	0.11368	0.09558
3815570.46	0.12459	0.15235	0.13700	0.09511	0.10362	0.17096	0.13695	0.09971	0.08498
3815495.46	0.13113	0.17347	0.14847	0.09543	0.15245	0.17469	0.12514	0.09203	0.08217
3815420.46	0.18476	0.20039	0.15236	0.10393	0.20181	0.19100	0.11885	0.09644	0.11174
3815345.46	0.21270	0.23340	0.16521	0.12976	0.25749	0.20565	0.15623	0.16227	0.12823
3815270.46	0.25041	0.25901	0.17930	0.18237	0.32298	0.25477	0.17889	0.12565	0.10636
3815195.46	0.28086	0.29099	0.23338	0.20097	0.37410	0.36522	0.26790	0.15738	0.12201
3815120.46	0.30368	0.30463	0.26409	0.20789	0.30216	0.50949	0.37522	0.26016	0.16872
3815045.46	0.32449	0.32845	0.31572	0.26512	0.30031	0.61736	0.54572	0.43390	0.26585

3814970.46	0.32077	0.29407	0.25119	0.23260	0.23582	0.55296	0.72390	0.48306	0.32756
3814895.46	0.17008	0.16842	0.14810	0.18507	0.24660	0.40761	0.87882	0.86131	0.59676
3814820.46	0.16662	0.20496	0.16015	0.23393	0.29247	0.34255	0.88178	0.96442	0.61230
3814745.46	0.24758	0.32903	0.24197	0.34894	0.38169	0.37356	0.79045	0.97840	1.04126
3814670.46	0.39598	0.43193	0.38345	0.36961	0.56765	0.66983	0.91741	1.09906	1.13834
3814595.46	0.38343	0.47729	0.57326	0.60021	0.58073	0.82777	0.94580	1.06546	1.01190
3814520.46	0.35576	0.43312	0.53325	0.61226	0.74953	0.86204	0.96776	1.09326	0.69826
3814445.46	0.33516	0.40172	0.47532	0.54458	0.69388	0.79208	0.90055	1.02196	0.98385
3814370.46	0.20636	0.31411	0.38046	0.45711	0.63411	0.70810	0.80513	0.92142	1.05254
3814295.46	0.05304	0.11738	0.22437	0.35462	0.40559	0.49354	0.71300	0.81301	0.92405
3814220.46	0.02666	0.07445	0.15608	0.13827	0.19298	0.25412	0.61511	0.71457	0.81152
3814145.46	0.03629	0.05747	0.03823	0.02563	0.03830	0.16266	0.34667	0.63556	0.71452
3814070.46	0.03078	0.01426	0.00786	0.00927	0.02421	0.13072	0.26646	0.26058	0.63543
3813995.46	0.00952	0.00620	0.00572	0.00773	0.01388	0.05110	0.06752	0.10592	0.32548
3813920.46	0.01842	0.01219	0.00907	0.00563	0.00876	0.02209	0.01791	0.03128	0.12129
3813845.46	0.05449	0.03213	0.00947	0.00570	0.00666	0.00706	0.00915	0.01297	0.03234
3813770.46	0.07061	0.06121	0.02668	0.00838	0.01011	0.00903	0.01052	0.01295	0.03961
3813695.46	0.11064	0.06791	0.01875	0.01177	0.01710	0.02019	0.03831	0.05393	0.24418
3813620.46	0.12775	0.10350	0.03360	0.01300	0.02805	0.06598	0.11290	0.18891	0.17515
3813545.46	0.11721	0.03489	0.01013	0.00952	0.03304	0.06460	0.04731	0.13067	0.09232
3813470.46	0.04764	0.01085	0.02485	0.02452	0.01945	0.01255	0.01364	0.06988	0.04302
3813395.46	0.08089	0.05185	0.09754	0.07771	0.05886	0.01394	0.01107	0.02911	0.01418
3813320.46	0.22255	0.23251	0.13247	0.12087	0.05717	0.04006	0.01020	0.00881	0.01005
3813245.46	0.12951	0.12008	0.07652	0.04105	0.00989	0.00842	0.00665	0.00532	0.00604
3813170.46	0.06258	0.04463	0.01798	0.00860	0.00761	0.01059	0.00560	0.00518	0.00772

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348845.28	348920.28	348995.28	349070.28	349145.28	349220.28	349295.28	349370.28	349445.28
3816095.46	0.04637	0.03996	0.04385	0.03782	0.03765	0.03504	0.03606	0.04298	0.04131
3816020.46	0.04937	0.04398	0.04884	0.04219	0.04414	0.03912	0.04436	0.04723	0.04405
3815945.46	0.05693	0.05414	0.05657	0.04852	0.05163	0.04244	0.04754	0.05293	0.04963
3815870.46	0.06428	0.06296	0.06151	0.05949	0.05891	0.05365	0.05233	0.05857	0.06408
3815795.46	0.07268	0.06888	0.07134	0.07014	0.06739	0.06225	0.05885	0.05844	0.06757
3815720.46	0.07947	0.07797	0.08492	0.08078	0.07639	0.07167	0.06678	0.06603	0.07453
3815645.46	0.08655	0.08133	0.08988	0.09296	0.08739	0.08148	0.07262	0.06828	0.07056
3815570.46	0.08505	0.08542	0.09513	0.10839	0.09845	0.08438	0.07082	0.06625	0.06879
3815495.46	0.08331	0.09113	0.09611	0.12326	0.10380	0.08914	0.08154	0.07720	0.06448
3815420.46	0.09198	0.09844	0.12040	0.14936	0.12544	0.11123	0.09699	0.08804	0.07790
3815345.46	0.10334	0.11211	0.15164	0.16129	0.11647	0.10306	0.10087	0.08085	0.07742
3815270.46	0.12668	0.13597	0.17503	0.21226	0.13301	0.12671	0.11523	0.09241	0.10103
3815195.46	0.16965	0.18693	0.30893	0.20789	0.17062	0.14367	0.12997	0.11533	0.12655
3815120.46	0.24964	0.30181	0.36088	0.26833	0.19709	0.15713	0.14532	0.15157	0.16102
3815045.46	0.31978	0.44741	0.40474	0.21273	0.21634	0.19887	0.18715	0.19868	0.21437

3814970.46	0.32119	0.70539	0.64955	0.47055	0.29676	0.20567	0.24781	0.29209	0.27694	
3814895.46	0.48181	0.85365	0.61250	0.40074	0.29336	0.27637	0.35372	0.47753	0.28625	
3814820.46	0.90942	1.25482	0.87520	0.59070	0.68797	0.57258	0.54283	0.65829	0.43906	
3814745.46	1.19989	1.28255	0.63310	0.92779	0.85391	0.84781	1.02267	0.82191	0.37623	
3814670.46	1.33395	1.24152	0.91140	1.27000	1.77003	1.58537	1.87056	1.13166	0.60502	
3814595.46	1.15043	0.58333	0.92878	2.06323	2.56195	2.40012	2.89525	2.08410	1.29488	
3814520.46	0.47773	0.66030	1.03298	2.02050	2.76954	2.75094	3.49560	3.53670	1.46245	
3814445.46	1.01517	1.27104	1.32869	1.58426	2.65879	3.13660	3.27180	1.89858	1.64052	
3814370.46	1.20718	1.41834	1.67440	1.99505	2.41855	2.70316	1.40510	2.05692	2.44817	
3814295.46	1.05808	1.22215	1.42931	1.69852	2.05827	2.54703	2.43867	3.17616	2.21257	
3814220.46	0.91704	1.04464	1.20345	1.43276	1.69934	2.05352	2.58645	3.33599	3.25937	
3814145.46	0.80110	0.89926	1.03346	1.18166	1.36577	1.61375	1.94254	2.45568	3.37856	
3814070.46	0.70782	0.78902	0.88715	1.00553	1.13664	1.30217	1.53127	1.85169	2.33553	
3813995.46	0.64775	0.71957	0.81137	0.87963	0.97889	1.10876	1.28439	1.51990	1.83891	
3813920.46	0.59191	0.65889	0.72704	0.80995	0.89513	1.01174	1.14855	1.31021	1.55700	
3813845.46	0.56255	0.62848	0.70023	0.77597	0.44162	1.02593	1.07381	1.19385	1.35516	
3813770.46	0.53919	0.05458	0.04677	0.09948	0.10372	0.95020	0.97875	1.09798	1.20673	
3813695.46	0.15607	0.04466	0.00886	0.01634	0.08644	0.86763	0.96871	1.02095	1.06186	
3813620.46	0.17942	0.03543	0.01304	0.01170	0.02014	0.04499	0.86700	0.96025	1.03520	
3813545.46	0.06147	0.08823	0.03271	0.01812	0.07145	0.30310	0.22819	0.03599	0.14994	
3813470.46	0.01789	0.03054	0.03741	0.01732	0.02405	0.10047	0.06261	0.01133	0.04584	
3813395.46	0.01044	0.00924	0.02118	0.01881	0.06166	0.03153	0.27167	0.18607	0.03182	
3813320.46	0.00669	0.00916	0.01204	0.01571	0.15143	0.28332	0.57181	0.61452	0.24510	
3813245.46	0.01064	0.01909	0.06179	0.04125	0.05935	0.06132	0.29535	0.53432	0.58448	
3813170.46	0.01138	0.02347	0.06187	0.17592	0.12692	0.44582	0.47650	0.49234	0.49880	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 349520.28	349595.28	349670.28	349745.28	349820.28	349895.28	349970.28	350045.28	350120.28
3816095.46	0.04440	0.04593	0.05499	0.06068	0.06092	0.06124	0.06236	0.08200	0.06555
3816020.46	0.05428	0.05672	0.05869	0.07101	0.07773	0.08541	0.07019	0.08365	0.09936
3815945.46	0.06134	0.07568	0.07324	0.08291	0.09448	0.10522	0.10867	0.09607	0.12982
3815870.46	0.06513	0.08374	0.09678	0.10794	0.11749	0.12714	0.14350	0.13988	0.15370
3815795.46	0.08106	0.09214	0.10553	0.12109	0.13782	0.16130	0.18574	0.22990	0.25578
3815720.46	0.08022	0.07623	0.08512	0.13115	0.15253	0.18785	0.17564	0.19581	0.31911
3815645.46	0.07833	0.07569	0.10986	0.14288	0.14176	0.14716	0.18902	0.23996	0.31993
3815570.46	0.07861	0.08110	0.11020	0.11689	0.12430	0.15257	0.15409	0.21243	0.22611
3815495.46	0.07805	0.08243	0.10038	0.09447	0.11888	0.14247	0.12099	0.13123	0.15333
3815420.46	0.07760	0.07989	0.08693	0.10813	0.12200	0.12397	0.11589	0.12613	0.11802
3815345.46	0.07087	0.07636	0.08112	0.10427	0.11571	0.11551	0.11073	0.11876	0.10249
3815270.46	0.08724	0.09477	0.09258	0.10162	0.10007	0.11232	0.11300	0.10726	0.09232
3815195.46	0.11978	0.10839	0.11173	0.13305	0.13167	0.12851	0.14550	0.12756	0.09355
3815120.46	0.14786	0.13298	0.11564	0.15734	0.16336	0.15216	0.16975	0.14100	0.10636
3815045.46	0.18224	0.15587	0.15685	0.16976	0.20770	0.19208	0.19982	0.15883	0.12371

3814970.46	0.19167	0.18015	0.21322	0.19689	0.24512	0.24663	0.22836	0.18567	0.12688	
3814895.46	0.25277	0.24670	0.28453	0.23936	0.29902	0.31908	0.24005	0.16604	0.13306	
3814820.46	0.30412	0.32248	0.39434	0.33390	0.39403	0.36053	0.25931	0.20543	0.17679	
3814745.46	0.34012	0.37340	0.49820	0.46171	0.56640	0.45150	0.36071	0.29239	0.24291	
3814670.46	0.62071	0.78049	0.66876	0.75233	0.85839	0.69333	0.55444	0.41682	0.31332	
3814595.46	1.08968	1.73492	1.76368	1.36251	1.33541	0.97162	0.74233	0.54251	0.36866	
3814520.46	1.31125	3.38398	3.08601	3.25204	1.71562	0.92251	0.77078	0.54521	0.40103	
3814445.46	1.82815	6.56231	8.98286	6.29097	3.06371	1.92811	1.22124	0.94893	0.47998	
3814370.46	4.15202	10.75750	13.30730	5.90729	3.11885	3.27346	2.88001	1.38701	0.86295	
3814295.46	6.46023	11.29366	8.87034	4.76641	2.68862	3.76443	2.26253	2.41420	0.99016	
3814220.46	6.04614	9.80155	3.76329	1.86633	2.60275	4.79126	2.22786	3.91914	1.21765	
3814145.46	4.67573	7.12902	10.17640	1.87816	4.00380	3.03325	2.00354	8.26456	8.89429	
3814070.46	3.15888	4.62201	7.44573	11.52084	11.49121	4.83728	1.61480	4.29981	12.57866	
3813995.46	2.31258	3.00062	4.02740	5.62615	9.77695	9.83679	5.65749	15.17969	7.58170	
3813920.46	1.88104	2.31643	2.88578	3.58959	4.67034	6.56743	7.87591	9.76742	8.94618	
3813845.46	1.56993	1.84180	2.17593	2.53590	2.95365	3.59333	4.42891	5.74076	6.57919	
3813770.46	1.32118	1.49402	1.69371	1.89307	2.09613	2.37054	2.78564	3.38917	4.17534	
3813695.46	1.12566	1.23992	1.35888	1.47377	1.58570	1.72697	1.94496	2.52377	3.05052	
3813620.46	1.06727	1.11812	1.11729	1.18605	1.25036	1.32919	1.45714	1.65710	1.89412	
3813545.46	0.44811	0.99784	0.95752	0.99351	1.02034	1.06610	1.14306	1.25996	1.42145	
3813470.46	0.87546	0.90237	0.85548	0.89077	0.86697	0.88162	0.92962	1.00525	1.11490	
3813395.46	0.15046	0.82854	0.86576	0.83179	0.76036	0.74900	0.77994	0.83115	0.90304	
3813320.46	0.67993	0.40274	0.09389	0.36092	0.74286	0.68525	0.69768	0.70617	0.74976	
3813245.46	0.58481	0.62794	0.64849	0.12467	0.22391	0.69122	0.63298	0.63453	0.65631	
3813170.46	0.52501	0.50094	0.52200	0.59567	0.32280	0.19123	0.62515	0.59886	0.57954	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350195.28	350270.28	350345.28	350420.28	350495.28	350570.28	350645.28	350720.28	350795.28
3816095.46	0.07487	0.05137	0.04635	0.07431	0.04593	0.05238	0.03286	0.04149	0.21731
3816020.46	0.09730	0.09573	0.08285	0.07944	0.10127	0.09736	0.06182	0.08643	0.13011
3815945.46	0.12360	0.13866	0.19321	0.24912	0.18372	0.21833	0.16719	0.29847	0.22619
3815870.46	0.17661	0.20598	0.31992	0.37325	0.29091	0.31678	0.23920	0.43284	0.32076
3815795.46	0.26042	0.28888	0.32834	0.41581	0.47711	0.41653	0.46305	0.47650	0.47305
3815720.46	0.37062	0.38222	0.41565	0.52517	0.54010	0.53078	0.48136	0.51919	0.50569
3815645.46	0.37604	0.47788	0.49735	0.58025	0.59101	0.58588	0.56961	0.54979	0.52944
3815570.46	0.19445	0.41710	0.48015	0.46096	0.61902	0.62941	0.60953	0.58997	0.55662
3815495.46	0.10351	0.16295	0.26508	0.12467	0.34210	0.52997	0.63083	0.63666	0.61072
3815420.46	0.08952	0.13044	0.15464	0.26685	0.42456	0.52455	0.66810	0.68160	0.66578
3815345.46	0.08576	0.08473	0.12217	0.18679	0.20832	0.28850	0.56601	0.64476	0.71933
3815270.46	0.09612	0.09693	0.11516	0.10019	0.07726	0.10927	0.25852	0.09910	0.42350
3815195.46	0.08906	0.08988	0.08853	0.08099	0.06780	0.06973	0.06851	0.10034	0.30812
3815120.46	0.10323	0.08894	0.08364	0.08461	0.08082	0.06766	0.06644	0.06781	0.10530
3815045.46	0.10970	0.11213	0.10292	0.09178	0.09390	0.07091	0.06686	0.07002	0.06827

3814970.46	0.12922	0.11444	0.12523	0.10331	0.11217	0.08171	0.07928	0.06703	0.11104	
3814895.46	0.13452	0.13889	0.12617	0.13192	0.12767	0.10271	0.11000	0.10826	0.19735	
3814820.46	0.15846	0.15705	0.15112	0.13400	0.14283	0.17430	0.26153	0.55427	0.74022	
3814745.46	0.18095	0.15985	0.13087	0.11577	0.11033	0.10082	0.10663	0.09817	0.50035	
3814670.46	0.24777	0.17662	0.15800	0.14632	0.12150	0.10494	0.15379	0.23661	0.19093	
3814595.46	0.27011	0.19994	0.19259	0.19770	0.22734	0.12524	0.23494	1.34230	1.06730	
3814520.46	0.29332	0.21801	0.23957	0.43654	0.85344	0.93546	0.48522	1.89445	2.05259	
3814445.46	0.34033	0.25619	0.24483	0.25067	0.38074	1.85810	2.06832	2.39284	1.57380	
3814370.46	0.41482	0.45924	0.67346	0.57503	0.22905	0.37625	1.63093	1.01356	2.35482	
3814295.46	0.53742	0.62701	1.82401	3.84122	2.51466	1.31606	1.59627	1.36900	2.52261	
3814220.46	0.72467	0.48919	2.13130	4.51728	4.84090	4.07999	2.99243	0.44872	0.85598	
3814145.46	0.74365	1.19040	0.68595	5.03805	5.96574	4.67811	3.36088	3.52975	2.03819	
3814070.46	1.32404	1.07197	1.00593	6.98038	6.05527	4.54553	4.03407	3.58945	3.14204	
3813995.46	8.21868	5.34762	0.87807	6.64184	5.64021	4.76651	3.74549	3.08479	2.91551	
3813920.46	6.71315	0.93510	0.88446	4.16221	3.56703	4.24634	3.62557	2.91232	2.52123	
3813845.46	4.02989	3.41799	5.52664	2.21936	3.14220	3.60809	2.62971	3.12825	2.63829	
3813770.46	4.35839	4.78633	4.17799	4.47930	3.96865	3.50179	2.58031	2.58209	2.62270	
3813695.46	3.05587	3.45484	3.65468	3.30238	3.33146	2.52388	2.79086	2.77501	2.13542	
3813620.46	2.16281	2.43094	2.73768	2.57830	2.64604	2.69259	2.66329	2.29457	1.85662	
3813545.46	1.60494	1.78412	1.91061	2.01920	2.24700	2.08846	2.11227	1.97672	1.66031	
3813470.46	1.24937	1.38579	1.50165	1.59989	1.64556	1.91288	1.91380	1.75458	1.54026	
3813395.46	1.00122	1.10666	1.20777	1.29199	1.34726	1.42757	1.67153	1.64098	1.36067	
3813320.46	0.82093	0.90145	0.98617	1.06429	1.12678	1.17316	1.34387	1.27354	1.20739	
3813245.46	0.68849	0.74939	0.81853	0.88798	0.94737	0.98876	1.01885	1.20012	1.03218	
3813170.46	0.59508	0.63757	0.69038	0.74800	0.80354	0.84634	0.87544	0.93888	0.92373	

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350870.28	350945.28	351020.28	351095.28
3816095.46	0.09561	0.06211	0.06671	0.16494
3816020.46	0.25767	0.10782	0.23609	0.29148
3815945.46	0.37839	0.23417	0.31159	0.38811
3815870.46	0.40860	0.32124	0.41760	0.40572
3815795.46	0.45180	0.45482	0.42326	0.41876
3815720.46	0.49197	0.48300	0.45481	0.44145
3815645.46	0.51644	0.50385	0.47528	0.44275
3815570.46	0.53210	0.52237	0.50365	0.49448
3815495.46	0.57170	0.53491	0.51272	0.49833
3815420.46	0.62222	0.56975	0.54247	0.50947
3815345.46	0.67680	0.64573	0.59305	0.54421
3815270.46	0.73387	0.67033	0.66921	0.59267
3815195.46	0.44765	0.61992	0.66278	0.70531
3815120.46	0.12761	0.11910	0.16349	0.60818
3815045.46	0.09082	0.14950	0.53511	0.51115
3814970.46	0.10850	0.09230	0.12974	0.41131
3814895.46	0.44208	0.14894	0.28458	0.47966
3814820.46	0.84554	0.48307	0.33132	0.76783
3814745.46	1.00295	1.15071	0.83467	0.49633
3814670.46	0.96875	0.91834	1.17106	1.24764
3814595.46	1.43450	1.21634	1.08569	1.32822
3814520.46	1.78609	1.62512	1.57670	1.19760
3814445.46	1.48629	1.84891	1.48748	1.53794
3814370.46	2.21278	1.99373	1.53116	1.51065
3814295.46	2.34861	1.81476	1.60282	1.54759
3814220.46	2.55435	2.21557	1.70171	1.49853
3814145.46	2.31154	2.27742	2.16455	1.62610
3814070.46	2.74530	2.08566	2.26286	1.71507
3813995.46	2.38471	2.13115	2.10554	1.83536
3813920.46	2.24655	2.00417	1.80988	1.64675
3813845.46	2.15363	1.93093	1.73207	1.57831

3813770.46	2.38782	2.08928	1.67613	1.51081
3813695.46	1.90600	1.72985	1.55482	1.43196
3813620.46	1.70198	1.57056	1.45478	1.34985
3813545.46	1.55260	1.45050	1.35607	1.26768
3813470.46	1.40147	1.32926	1.25644	1.18439
3813395.46	1.25757	1.20945	1.15667	1.10124
3813320.46	1.12123	1.09201	1.05671	1.01652
3813245.46	0.99624	0.97906	0.95804	0.93212
3813170.46	0.88533	0.87633	0.86493	0.84931

**MODELOPTs: RegDFAULT CONC ELEV

*** THE PERIOD (8760 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
350508.88	3814829.88	0.14864	350283.70	3815266.49	0.09810
350539.82	3814604.70	0.14654	350467.63	3814245.45	4.26829
350008.68	3813941.20	11.08259	350147.91	3813936.04	10.07938
350557.01	3814453.44	1.80665	349200.78	3815251.02	0.13405
349173.28	3815257.89	0.12714	348862.58	3814174.11	0.86523
348862.58	3815183.55	0.20113	350494.71	3815179.68	0.06910
350486.97	3814363.62	0.25398	350216.24	3814363.62	0.41456
350216.24	3814193.45	0.63221	349991.92	3813969.12	11.08776
349794.67	3813961.39	5.70793	349597.42	3814065.81	4.52102
349121.71	3814085.15	1.12705			

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348170.28	348245.28	348320.28	348395.28	348470.28
3816095.5	0.33263m(05051624)	0.40693 (05031524)	0.43100 (05031524)	0.39228 (05031524)	0.31095 (05110924)
3816020.5	0.43550m(05051624)	0.44046m(05051624)	0.42358 (05031524)	0.35136 (05031524)	0.33083 (05110924)
3815945.5	0.48360m(05051624)	0.50605m(05051624)	0.42419m(05051624)	0.35228 (05031524)	0.44032 (05031524)
3815870.5	0.48439m(05051624)	0.55442m(05051624)	0.52976m(05051624)	0.44795m(05051624)	0.45412 (05031524)
3815795.5	0.54227m(05010924)	0.52467m(05051624)	0.59801m(05051624)	0.58458m(05051624)	0.45429m(05051624)
3815720.5	0.60178m(05010924)	0.59539m(05010924)	0.54090 (05010424)	0.48904m(05051624)	0.48520m(05051624)
3815645.5	0.57585m(05010924)	0.64691m(05010924)	0.61872m(05010924)	0.52058 (05010424)	0.53940m(05051624)
3815570.5	0.51087 (05052224)	0.63423m(05010924)	0.66900m(05010924)	0.53980 (05010424)	0.57440 (05010424)
3815495.5	0.59983 (05022024)	0.76076 (05070724)	0.62502m(05010924)	0.53189m(05010924)	0.74877m(05010924)
3815420.5	0.87789 (05022024)	0.92070 (05070724)	0.61511 (05022024)	0.51908m(05010924)	0.85756m(05010924)
3815345.5	1.09556 (05022024)	1.07153 (05022024)	0.80050 (05022024)	0.62239 (05022024)	1.10774 (05070724)
3815270.5	1.28942 (05022024)	1.29458 (05022024)	0.97725 (05022024)	0.91234 (05022024)	1.56208 (05070724)
3815195.5	1.43933 (05063024)	1.43616 (05022024)	1.24136 (05022024)	1.09626 (05022024)	1.75450 (05070724)
3815120.5	1.55377 (05063024)	1.56940 (05063024)	1.30049 (05022024)	1.13033 (05022024)	1.48762 (05022024)
3815045.5	1.63363 (05121324)	1.56061 (05063024)	1.57987 (05063024)	1.29009 (05063024)	1.47292 (05022024)

3814970.5 | 1.89201 (05070624) 1.62273 (05070624) 1.25101 (05070624) 1.09058 (05063024) 1.11815 (05063024)
3814895.5 | 1.14990 (05070624) 1.12855 (05070624) 0.94073 (05070624) 1.06647 (05070624) 1.22350 (05070624)
3814820.5 | 0.94503 (05070624) 1.23928 (05070624) 1.04311 (05070624) 1.48589 (05070624) 1.74421 (05070624)
3814745.5 | 1.53579 (05122224) 1.99565 (05122224) 1.28681 (05122224) 1.94222 (05031124) 2.14563 (05031124)
3814670.5 | 2.94721 (05062224) 2.93515 (05062224) 2.39787 (05122224) 2.22705 (05122224) 3.48763m(05031024)
3814595.5 | 3.40931 (05062224) 3.82444 (05062224) 4.13550 (05062224) 4.28296 (05062224) 4.00414 (05062224)
3814520.5 | 2.93646 (05062224) 3.38562 (05062224) 3.72389 (05062224) 4.01781 (05062224) 3.37203 (05062224)
3814445.5 | 2.92379 (05110624) 3.11010 (05110624) 3.24369 (05110624) 3.36840 (05110624) 3.16916 (05110624)
3814370.5 | 1.95098 (05091924) 2.63085 (05110624) 2.94189 (05110624) 3.20029 (05110624) 3.08652 (05110624)
3814295.5 | 0.83921 (05060424) 1.31889 (05060424) 2.01011 (05122324) 2.62686 (05122324) 2.80067 (05122324)
3814220.5 | 0.52896 (05122324) 1.21358 (05122324) 2.04857 (05122324) 1.84344 (05122324) 2.27719 (05122324)
3814145.5 | 0.63271 (05122324) 0.89998 (05122324) 0.63145 (05122324) 0.44064 (05122324) 0.59732 (05122324)
3814070.5 | 0.57846 (05021924) 0.25683 (05021924) 0.19641 (05120424) 0.20926 (05120424) 0.50025 (05021924)
3813995.5 | 0.24850 (05021924) 0.19107 (05021024) 0.20517 (05021024) 0.22719 (05021024) 0.34983 (05021924)
3813920.5 | 0.54770 (05021924) 0.32616 (05021924) 0.26913 (05021024) 0.26897 (05021024) 0.29360 (05120424)
3813845.5 | 1.22321m(05061924) 0.68530m(05061924) 0.32990 (05120424) 0.33717 (05120424) 0.39596 (05120424)
3813770.5 | 1.45891m(05111324) 1.25095m(05111324) 0.55553 (05010624) 0.46950 (05120424) 0.51183 (05120424)
3813695.5 | 1.46461 (05010624) 1.20429 (05010624) 0.52705 (05120424) 0.49889 (05120424) 0.51359 (05120424)
3813620.5 | 1.24801 (05010624) 1.08561 (05010624) 0.65686m(05121724) 0.39108 (05120424) 0.78142m(05121724)
3813545.5 | 1.16918m(05121724) 0.89131m(05121724) 0.32607m(05121724) 0.30039m(05121724) 0.90196m(05121724)
3813470.5 | 1.17120m(05121724) 0.38835m(05121724) 0.73882m(05121724) 0.64441 (05112224) 0.52731 (05112224)
3813395.5 | 1.53957 (05112224) 1.34517 (05112224) 2.10568 (05112224) 2.04697 (05112224) 1.76836 (05112224)
3813320.5 | 1.68609 (05112224) 1.67895 (05112224) 2.40723 (05112224) 2.44797 (05112224) 1.63435 (05112224)
3813245.5 | 2.12827 (05112224) 2.25148 (05112224) 1.95351 (05112224) 1.19196 (05112224) 0.30221 (05123024)
3813170.5 | 1.73142 (05112224) 1.32861 (05112224) 0.48414 (05112224) 0.28603 (05123024) 0.25216 (05020124)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348545.28	348620.28	348695.28	348770.28	348845.28
3816095.5	0.30388 (05110924)	0.28357 (05052724)	0.27946 (05122624)	0.40641 (05122624)	0.51269 (05122624)
3816020.5	0.33366 (05110924)	0.33796 (05110924)	0.27183 (05052724)	0.39579 (05122624)	0.47701 (05122624)
3815945.5	0.35515 (05110924)	0.38809 (05110924)	0.31782 (05110924)	0.34296 (05122624)	0.48130 (05122624)
3815870.5	0.44380 (05031524)	0.42504 (05110924)	0.39576 (05110924)	0.38231 (05052724)	0.43205 (05122624)
3815795.5	0.47171 (05031524)	0.45009 (05110924)	0.45222 (05110924)	0.42562 (05110924)	0.41122 (05052724)
3815720.5	0.60481m(05051624)	0.48536 (05031524)	0.48360 (05110924)	0.48506 (05110924)	0.44535 (05052724)
3815645.5	0.74483m(05051624)	0.61514m(05051624)	0.51276 (05060924)	0.51693 (05110924)	0.49352 (05110924)
3815570.5	0.91205m(05051624)	0.77955m(05051624)	0.51875m(05051624)	0.49682 (05031524)	0.50345 (05110924)
3815495.5	0.80185m(05051624)	0.70912m(05051624)	0.51317m(05051624)	0.42393 (05110924)	0.47865 (05110924)
3815420.5	0.88066m(05010924)	0.64570 (05010424)	0.53646 (05010424)	0.60989m(05051624)	0.51871 (05031524)
3815345.5	0.86580m(05010924)	0.76679m(05010924)	0.76614 (05010424)	0.68283m(05051624)	0.52561m(05051624)
3815270.5	1.07176 (05070724)	0.79370m(05010924)	0.66348m(05010924)	0.61363 (05010424)	0.65899 (05010424)
3815195.5	1.74887 (05070724)	1.11598 (05070724)	0.73803m(05010924)	0.64423 (05010424)	0.83159 (05010424)
3815120.5	2.33822 (05070724)	1.73971 (05070724)	1.04012 (05022024)	0.76958m(05010924)	1.06378m(05010924)
3815045.5	2.64454 (05100224)	2.38551 (05070724)	1.97091 (05070724)	1.15629 (05022024)	1.14169 (05022024)

3814970.5 | 2.59474 (05063024) 3.10203 (05100224) 2.08461 (05022024) 1.54648 (05022024) 1.40414 (05022024)
3814895.5 | 1.87323 (05063024) 3.82238 (05063024) 3.73593 (05063024) 2.51639 (05100224) 2.08949 (05022024)
3814820.5 | 1.83879 (05070624) 4.21991 (05121324) 4.25224 (05121324) 2.72255 (05063024) 3.85090 (05100224)
3814745.5 | 2.13549 (05070624) 4.31252 (05031124) 4.66117 (05031124) 4.62529 (05121324) 4.86487 (05100224)
3814670.5 | 4.09635m(05031024) 5.28695m(05031024) 5.79040m(05031024) 5.71649 (05031124) 5.89829 (05031124)
3814595.5 | 4.90386 (05062224) 5.23573m(05031024) 5.83513m(05031024) 5.80887m(05031024) 6.20858m(05031024)
3814520.5 | 3.93335 (05062224) 4.27616 (05062224) 4.62986 (05062224) 4.21955 (05062224) 2.36774m(05031024)
3814445.5 | 3.54521 (05091924) 3.98298 (05062224) 4.49393 (05062224) 5.73150 (05062224) 6.37130 (05062224)
3814370.5 | 3.36797 (05110624) 3.74832 (05110624) 4.24690 (05091924) 4.75694 (05091924) 5.27488 (05091924)
3814295.5 | 3.03801 (05122324) 3.30238 (05122324) 3.66591 (05122324) 4.08645 (05110624) 4.65894 (05091924)
3814220.5 | 2.66388 (05122324) 3.18016 (05122324) 3.67466 (05122324) 4.09476 (05122324) 4.49921 (05122324)
3814145.5 | 1.84191 (05122324) 3.00484 (05012124) 3.34329 (05122324) 3.72186 (05122324) 4.13888 (05122324)
3814070.5 | 1.86666 (05021924) 2.50397 (05012124) 2.53784 (05021924) 3.03566 (05122324) 3.51234 (05122324)
3813995.5 | 1.20143 (05021924) 1.40321 (05021924) 1.76999 (05021924) 2.80747m(05061924) 2.80229 (05122324)
3813920.5 | 0.40899 (05021924) 0.44465 (05120424) 0.55295 (05120424) 1.91142m(05111324) 2.41136 (05122324)
3813845.5 | 0.44341 (05120424) 0.51048 (05120424) 0.58232 (05120424) 0.70250 (05120424) 2.27567 (05010124)
3813770.5 | 0.51567 (05120424) 0.53375 (05120424) 0.54427 (05120424) 0.78218m(05121724) 2.56114 (05112224)
3813695.5 | 0.49971 (05120424) 0.88568m(05121724) 1.20531m(05121724) 2.74369 (05112224) 2.75157 (05112224)
3813620.5 | 1.38833m(05121724) 1.91845 (05112224) 2.82435 (05112224) 3.13811 (05112224) 3.43829 (05112224)
3813545.5 | 1.56173 (05112224) 1.32921 (05112224) 2.86182 (05112224) 2.41548 (05112224) 1.63227 (05112224)
3813470.5 | 0.32350 (05032124) 0.33810 (05032124) 1.92920 (05112224) 1.10063 (05112224) 0.44831 (05123024)
3813395.5 | 0.35351 (05112224) 0.27660 (05020124) 0.66643 (05112224) 0.37791 (05123024) 0.35691 (05020124)
3813320.5 | 1.07714 (05112224) 0.30293 (05123024) 0.31022 (05020124) 0.32007 (05020124) 0.28276 (05020124)
3813245.5 | 0.27314 (05020124) 0.27358 (05020124) 0.27864 (05120324) 0.26248 (05120324) 0.26957 (05020124)
3813170.5 | 0.26874 (05120324) 0.26973 (05120324) 0.24306 (05120324) 0.22326 (05020124) 0.24216 (05020124)

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 348920.28	348995.28	349070.28	349145.28	349220.28
3816095.5	0.46349 (05122624)	0.52981 (05122624)	0.37515 (05122624)	0.30470 (05122624)	0.22678 (05111724)
3816020.5	0.47685 (05122624)	0.63106 (05122624)	0.48910 (05122624)	0.41125 (05122624)	0.25533 (05011224)
3815945.5	0.60657 (05122624)	0.69101 (05122624)	0.56397 (05122624)	0.52849 (05122624)	0.31703 (05122624)
3815870.5	0.58972 (05122624)	0.70204 (05122624)	0.71641 (05122624)	0.64705 (05122624)	0.46590 (05122624)
3815795.5	0.53079 (05122624)	0.71275 (05122624)	0.79899 (05122624)	0.76065 (05122624)	0.60290 (05122624)
3815720.5	0.46661 (05122624)	0.69254 (05122624)	0.83108 (05122624)	0.85100 (05122624)	0.73980 (05122624)
3815645.5	0.44255 (05052724)	0.60403 (05122624)	0.82145 (05122624)	0.91567 (05122624)	0.86161 (05122624)
3815570.5	0.48354 (05110924)	0.50981 (05052724)	0.77561 (05122624)	0.93295 (05122624)	0.90721 (05122624)
3815495.5	0.52993 (05110924)	0.51446 (05110924)	0.68945 (05122624)	0.87600 (05122624)	0.92385 (05122624)
3815420.5	0.55543 (05110924)	0.63388 (05110924)	0.75467 (05052724)	0.83365 (05122624)	1.00779 (05122624)
3815345.5	0.57080 (05110924)	0.71449 (05110924)	0.75159 (05052724)	0.65046 (05122624)	0.83837 (05122624)
3815270.5	0.67530m(05051624)	0.73547 (05110924)	0.90508 (05060924)	0.67213 (05110924)	0.81660 (05122624)
3815195.5	0.92326m(05051624)	1.28839m(05051624)	0.83870 (05110924)	0.82931 (05110924)	0.70434 (05122624)
3815120.5	1.20283m(05010924)	1.50158m(05051624)	1.14623m(05051624)	0.89643 (05110924)	0.78699 (05110924)
3815045.5	1.56579m(05010924)	1.48913m(05010924)	0.94911 (05010424)	0.92820 (05021824)	0.94837 (05110924)

3814970.5 | 2.94990 (05070724) 2.32589 (05071324)
1.67123m(05010924) 1.24024m(05051624) 0.92890 (05021824)
3814895.5 | 3.82681 (05070724) 2.45207 (05070724)
1.45886m(05010924) 1.21713 (05010424) 1.15129 (05010424)
3814820.5 | 4.97748 (05070724) 3.75738 (05070724) 2.28268
(05070724) 2.24324 (05022024) 1.96360m(05010924)
3814745.5 | 5.28609 (05100224) 2.61982 (05022024) 3.78930
(05070724) 3.33795 (05070724) 2.82357 (05022024)
3814670.5 | 5.03811 (05121324) 3.69496 (05063024) 5.11183
(05100224) 6.71759 (05070724) 6.19631 (05070724)
3814595.5 | 2.85668 (05070624) 3.86956 (05070624) 7.38941
(05121324) 8.78490 (05100224) 8.71889 (05063024)
3814520.5 | 3.35758m(05031024) 5.31781m(05031024)
9.03269m(05031024) 8.71896m(05031024) 9.44560m(05031024)
3814445.5 | 7.17502 (05062224) 7.47887 (05062224)
8.29636m(05031024) 9.59428m(05031024) 10.24557m(05031024)
3814370.5 | 6.08694 (05091924) 6.97173 (05062224) 7.86798
(05062224) 8.95565 (05062224) 8.84777m(05031024)
3814295.5 | 5.35710 (05091924) 6.14759 (05091924) 7.10231
(05091924) 8.23796 (05091924) 9.68129 (05091924)
3814220.5 | 4.96253 (05122324) 5.52925 (05122324) 6.29813
(05122324) 7.21248 (05122324) 8.38137 (05122324)
3814145.5 | 4.58728 (05122324) 5.10904 (05122324) 5.75030
(05122324) 6.53575 (05122324) 7.55524 (05122324)
3814070.5 | 3.92929 (05122324) 4.41235 (05122324) 4.88505
(05122324) 5.48415 (05122324) 6.19144 (05122324)
3813995.5 | 3.07198 (05122324) 3.57106 (05122324) 3.97035
(05122324) 4.33419 (05122324) 4.74483 (05122324)
3813920.5 | 3.09543m(05111324) 3.28779m(05111324)
3.33282m(05111324) 4.10765 (05112224) 5.10233 (05112224)
3813845.5 | 2.57810 (05112224) 3.24151 (05112224) 3.28376
(05112224) 4.69516 (05112224) 4.86065 (05112224)
3813770.5 | 1.13680m(05121724) 0.92551m(05121724) 2.18700
(05112224) 2.30633 (05112224) 4.93676 (05112224)
3813695.5 | 1.06955 (05112224) 0.30296 (05020124) 0.45523
(05020124) 1.71625 (05112224) 4.07405 (05112224)
3813620.5 | 0.88648 (05112224) 0.42570 (05020124) 0.47461
(05020124) 0.57382 (05020124) 0.68578 (05020124)
3813545.5 | 1.88065 (05112224) 0.68490 (05123024) 0.49716
(05020124) 1.13473 (05012024) 2.26558 (05010124)
3813470.5 | 0.64849 (05123024) 0.65876 (05082724) 0.44126
(05020124) 0.49017 (05020124) 1.76805 (05010224)
3813395.5 | 0.34573 (05020124) 0.41546 (05062824) 0.40250
(05020124) 1.33732 (05010224) 0.94956 (05010224)
3813320.5 | 0.29545 (05020124) 0.31809 (05020124) 0.47120
(05010224) 2.16941 (05010224) 2.22371 (05010224)
3813245.5 | 0.34594 (05010224) 1.28653 (05010224) 1.22905
(05010224) 1.31785 (05010224) 1.18138 (05020524)
3813170.5 | 0.69849 (05010224) 1.50647 (05010224) 1.96628
(05010224) 1.60138 (05020524) 1.92942 (05010124)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 349295.28	349370.28	349445.28	349520.28	349595.28
3816095.5	0.27106 (05111724)	0.39338 (05111724)	0.29731 (05111724)	0.26238 (05041624)	0.28827 (05042124)
3816020.5	0.38099 (05111724)	0.41254 (05111724)	0.32602 (05111724)	0.34052 (05091124)	0.34205 (05042124)
3815945.5	0.36802 (05111724)	0.42613 (05111724)	0.39679 (05111724)	0.40704 (05091124)	0.48130 (05110924)
3815870.5	0.36716 (05011224)	0.43202 (05111724)	0.43235 (05111724)	0.43299 (05091124)	0.53258 (05110924)
3815795.5	0.41334 (05011224)	0.42671 (05111724)	0.45652 (05111724)	0.57818 (05091124)	0.57305 (05110924)
3815720.5	0.54003 (05122624)	0.41694 (05111724)	0.47581 (05111724)	0.54338 (05091124)	0.44649 (05091124)
3815645.5	0.65465 (05122624)	0.43028 (05011224)	0.48330 (05111724)	0.48297 (05091124)	0.42655 (05091124)
3815570.5	0.70154 (05122624)	0.47289 (05122624)	0.47816 (05111724)	0.50671 (05111724)	0.45546 (05091124)
3815495.5	0.83183 (05122624)	0.62735 (05122624)	0.35560 (05111724)	0.52935 (05111724)	0.47444 (05111724)
3815420.5	0.98299 (05122624)	0.79078 (05122624)	0.47051 (05122624)	0.49970 (05111724)	0.47617 (05111724)
3815345.5	0.98083 (05122624)	0.73309 (05122624)	0.53129 (05122624)	0.42084 (05111724)	0.44258 (05111724)
3815270.5	1.00209 (05122624)	0.84490 (05122624)	0.83006 (05122624)	0.44633 (05122624)	0.56304 (05111724)
3815195.5	0.95123 (05122624)	1.02680 (05122624)	1.08293 (05122624)	0.75487 (05122624)	0.60479 (05111724)
3815120.5	0.84223 (05122624)	1.18161 (05122624)	1.34253 (05122624)	1.04813 (05122624)	0.68223 (05111724)
3815045.5	0.87920 (05110924)	1.23478 (05122624)	1.58458 (05122624)	1.35166 (05122624)	0.81631 (05122624)

3814970.5 | 1.11064 (05110924) 1.25942 (05122624) 1.69777
(05122624) 1.45034 (05122624) 1.09288 (05122624)
3814895.5 | 1.35313 (05021824) 1.54607 (05060924) 1.51553
(05122624) 1.72583 (05122624) 1.56392 (05122624)
3814820.5 | 1.87533m(05050224) 2.04406 (05071524) 1.61139
(05021824) 1.78925 (05122624) 1.98954 (05122624)
3814745.5 | 3.08121 (05022024) 2.56955 (05022024) 1.55756
(05021824) 1.64278 (05122624) 2.16626 (05122624)
3814670.5 | 6.45614 (05070724) 3.60170 (05022024) 2.13981
(05022124) 2.24574 (05021824) 3.07176 (05122624)
3814595.5 | 10.16970 (05070724) 7.05050 (05070724) 4.28204
(05022024) 3.48775 (05022024) 4.80382 (05100824)
3814520.5 | 11.28017 (05063024) 12.05810 (05063024) 5.07073
(05022024) 4.57859 (05022024) 9.33393 (05071924)
3814445.5 | 12.45387m(05031024) 6.34236 (05063024) 5.45452
(05070724) 6.04091 (05022024) 18.15336m(05030724)
3814370.5 | 6.22719m(05031024) 8.43594m(05031024)
8.55102m(05031024) 12.47367 (05063024) 23.87148 (05063024)
3814295.5 | 10.29374 (05062224) 12.58338 (05062224)
8.96270m(05031024) 21.12173m(05031024) 26.48181m(05031024)
3814220.5 | 10.03452 (05122324) 12.07106 (05122324) 12.67522
(05122324) 17.16496 (05122324) 24.55207 (05091924)
3814145.5 | 8.83515 (05122324) 10.71144 (05122324) 13.77117
(05122324) 17.60981 (05122324) 23.07849 (05122324)
3814070.5 | 7.08897 (05122324) 8.23732 (05122324) 9.84051
(05122324) 12.49637 (05123024) 17.22820 (05123024)
3813995.5 | 5.25133 (05112224) 6.74173 (05112224) 8.50748
(05112224) 10.70693 (05112224) 13.21679 (05112224)
3813920.5 | 6.19894 (05112224) 7.24930 (05112224) 8.42243
(05112224) 9.39633 (05112224) 9.98367 (05112224)
3813845.5 | 6.41679 (05112224) 6.87980 (05112224) 7.02047
(05112224) 7.39450 (05012624) 7.75924 (05012624)
3813770.5 | 5.57129 (05112224) 6.27508 (05012624) 7.00091
(05012624) 6.28484 (05012624) 5.97251 (05010124)
3813695.5 | 3.99948 (05112224) 5.89496 (05012624) 6.22015
(05012624) 4.73284 (05012624) 4.97448 (05010124)
3813620.5 | 3.63650 (05010124) 4.10565 (05010124) 4.11085
(05010124) 3.98915 (05010124) 4.37153 (05122324)
3813545.5 | 2.60384 (05010224) 0.85857 (05010224) 1.86256
(05020524) 3.19539 (05010124) 4.04812 (05122324)
3813470.5 | 1.43436 (05010224) 0.39751 (05020124) 0.70649
(05021024) 3.71530 (05010124) 3.78971 (05122324)
3813395.5 | 2.34311 (05010224) 2.10348 (05020524) 0.47992
(05062824) 1.96629 (05122324) 3.53216 (05010124)
3813320.5 | 2.47588 (05010124) 2.63586 (05010124) 2.26966
(05122324) 2.88575 (05010124) 2.73556 (05122324)
3813245.5 | 2.07581 (05021024) 2.19210 (05122324) 2.50095
(05010124) 2.71179 (05122324) 2.73387 (05012124)
3813170.5 | 2.01116 (05010124) 2.21633 (05122324) 2.29044
(05122324) 2.41171 (05122324) 2.32086 (05012124)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 349670.28	349745.28	349820.28	349895.28	349970.28
3816095.5	0.31059 (05042124)	0.35760 (05102424)	0.34408 (05061124)	0.33919 (05081024)	0.33992 (05022524)
3816020.5	0.32873 (05081224)	0.44097 (05081224)	0.49713 (05061124)	0.47603 (05061124)	0.36339 (05081324)
3815945.5	0.50151 (05081224)	0.54631 (05081224)	0.62827 (05061124)	0.58406 (05061124)	0.67087 (05102324)
3815870.5	0.73900 (05081224)	0.75153 (05081224)	0.79232 (05061124)	0.69183 (05061124)	1.05999 (05102324)
3815795.5	0.78567 (05081224)	0.85098 (05081224)	0.92113 (05061124)	0.96331 (05102324)	1.52477 (05102324)
3815720.5	0.50761 (05081224)	0.92231 (05081224)	1.00410 (05061124)	1.17202 (05102324)	1.33683 (05102324)
3815645.5	0.72866 (05081224)	1.00061 (05081224)	0.90827 (05061124)	0.79594 (05061124)	1.42590 (05102324)
3815570.5	0.66882 (05081224)	0.74852 (05081224)	0.72892 (05061124)	0.82045 (05061124)	0.90013 (05102324)
3815495.5	0.49162 (05081224)	0.44539 (05081224)	0.62694 (05061124)	0.75025 (05061124)	0.64563 (05081324)
3815420.5	0.40353 (05091124)	0.51717 (05081224)	0.59861 (05061124)	0.58970 (05061124)	0.59253 (05081324)
3815345.5	0.37605 (05111724)	0.48603 (05081224)	0.50413 (05081224)	0.49558 (05061124)	0.53298 (05081324)
3815270.5	0.43675 (05111724)	0.48981 (05081224)	0.46747 (05081224)	0.48190 (05061524)	0.55237 (05061524)
3815195.5	0.55922 (05111724)	0.58563 (05081224)	0.57934 (05081224)	0.55772 (05061524)	0.70217 (05061524)
3815120.5	0.56513 (05111724)	0.67156 (05081224)	0.68647 (05081224)	0.65052 (05061524)	0.83973 (05061524)
3815045.5	0.75819 (05111724)	0.70819 (05081224)	0.92473 (05061124)	0.81706 (05061524)	1.01487 (05061524)

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 3814970.5 |      0.89176 (05111724)      0.78776 (05081224)      1.08545
(05061124)      1.05492 (05061524)      1.18173 (05061524)
 3814895.5 |      1.18159m(05092424)      0.90216 (05081224)      1.30966
(05061124)      1.37454 (05061124)      1.23171 (05061524)
 3814820.5 |      1.76811 (05122624)      1.21341 (05091124)      1.71121
(05061124)      1.55093 (05061524)      1.30444 (05061524)
 3814745.5 |      2.34905 (05122624)      1.57959 (05041824)      2.37817
(05061124)      1.93950 (05061524)      1.91266 (05061524)
 3814670.5 |      3.02713 (05122624)      2.75989m(05092424)      3.33844
(05061124)      2.98385 (05061524)      3.02068 (05061524)
 3814595.5 |      5.93209 (05100824)      4.81793m(05092424)      4.61747
(05061124)      4.09090 (05061524)      3.88264 (05061524)
 3814520.5 |      8.98866 (05100824)     10.50908m(05121724)      5.00957
(05061124)      3.53251 (05061524)      3.50719 (05061524)
 3814445.5 |     23.25963m(05091224)     17.14063 (05100824)
8.18341m(05092424)      6.55030 (05061524)      4.80413 (05061524)
 3814370.5 |     32.90489m(05030724)     12.29351 (05022024)      7.45000
(05052924)      9.54255 (05061524)      9.44087 (05102224)
 3814295.5 |     22.06597 (05063024)     10.99449 (05022024)      4.52709
(05052924)      6.78437 (05102224)      4.07187 (05102224)
 3814220.5 |     11.17231 (05071424)      3.43296 (05071024)      4.11897
(05052924)      7.57133 (05102224)      3.69910 (05102224)
 3814145.5 |     27.51944 (05122324)      3.73456 (05070424)      5.61923
(05030824)      4.44403 (05111424)      3.50178 (05111424)
 3814070.5 |     25.41187 (05122324)     38.09852 (05010124)     26.59127
(05011824)     11.71706 (05122024)      3.17193 (05112124)
 3813995.5 |     16.19699 (05112224)     20.13659 (05010124)     41.34143
(05011824)     35.82647 (05010124)     37.25912 (05122024)
 3813920.5 |     11.01842 (05010124)     13.70688 (05010124)     21.85437
(05011824)     35.75661 (05011824)     40.16615 (05122024)
 3813845.5 |      8.56380 (05010124)      9.94984 (05010124)     14.36663
(05011824)     20.50438 (05011824)     25.22416 (05011824)
 3813770.5 |      6.78016 (05010124)      7.55564 (05010124)     10.70367
(05011824)     14.03720 (05011824)     16.66204 (05011824)
 3813695.5 |      5.48313 (05010124)      6.14755 (05011824)      8.47059
(05011824)     10.58189 (05011824)     12.03049 (05011824)
 3813620.5 |      4.52315 (05010124)      5.31702 (05011824)      6.93114
(05011824)      8.29648 (05011824)      9.26128 (05011824)
 3813545.5 |      3.85277 (05012124)      4.85549 (05011824)      5.87549
(05011824)      6.75697 (05011824)      7.39362 (05011824)
 3813470.5 |      3.64709 (05012124)      4.71433 (05011824)      5.26266
(05011824)      5.66547 (05011824)      6.09730 (05011824)
 3813395.5 |      3.69667 (05010124)      4.43318 (05011824)      4.79213
(05011824)      4.89737 (05011824)      5.20343 (05011824)
 3813320.5 |      1.49883 (05120424)      3.33850 (05120424)      4.57917
(05011824)      4.70298 (05011824)      4.89804 (05011824)
 3813245.5 |      3.04897 (05012124)      2.24833 (05120424)      2.96507
(05011824)      3.99977 (05011824)      4.50254 (05011824)
 3813170.5 |      2.72102 (05011824)      3.03778 (05011824)      3.10419
(05011824)      2.70033 (05011824)      3.89236 (05011824)
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**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350045.28	350120.28	350195.28	350270.28	350345.28
3816095.5	0.52052 (05081324)	0.49703m(05030724)	0.63707 (05031224)	0.38226 (05061524)	0.39008 (05061524)
3816020.5	0.52587 (05081324)	0.80739 (05031224)	1.00808 (05031224)	0.99657 (05031224)	0.81949 (05020724)
3815945.5	0.60651 (05081324)	1.21931 (05031224)	1.38679 (05031224)	1.51883 (05031224)	2.24825 (05020724)
3815870.5	1.11625 (05102324)	1.53080 (05031224)	2.05926 (05031224)	2.15514 (05031224)	3.23636 (05020724)
3815795.5	2.13498 (05102324)	2.62961 (05031224)	2.89409 (05031224)	2.74922 (05031224)	3.27332 (05020724)
3815720.5	1.69403 (05102324)	3.21562 (05031224)	3.71804 (05031224)	3.42143 (05020724)	3.52133 (05020724)
3815645.5	2.11762 (05102324)	3.28190 (05031224)	3.72395 (05031224)	3.85543 (05020724)	3.47459 (05020724)
3815570.5	1.73315 (05102324)	2.36529 (05031224)	1.99241 (05031224)	3.76205 (05020724)	3.34169 (05020724)
3815495.5	0.75056 (05081324)	1.32082 (05031224)	0.87868 (05061524)	1.45432 (05061524)	2.21855m(05050524)
3815420.5	0.71771 (05061524)	0.83755 (05061524)	0.70676 (05061524)	1.22232 (05061524)	1.47259m(05050524)
3815345.5	0.68198 (05061524)	0.68264 (05061524)	0.60779 (05061524)	0.72166 (05061524)	1.07555m(05050524)
3815270.5	0.60588 (05061524)	0.55786 (05061524)	0.71837 (05061524)	0.82317 (05061524)	0.86447m(05050524)
3815195.5	0.72750 (05061524)	0.54252 (05060524)	0.52980 (05061524)	0.60883 (05061524)	0.59791 (05102224)
3815120.5	0.81060 (05061524)	0.60745 (05061524)	0.65718 (05061524)	0.46502 (05102224)	0.59803 (05102224)
3815045.5	0.91048 (05061524)	0.70396 (05061524)	0.60669 (05061524)	0.69128 (05102224)	0.78064 (05102224)

3814970.5	1.09864	(05061524)	0.66651	(05061624)	0.68717
(05061524)	0.74738	(05102224)	0.96127	(05110224)	
3814895.5	0.82822	(05060524)	0.68488	(05061624)	0.70996
(05102224)	0.96914	(05102224)	1.11364	(05110224)	
3814820.5	1.02457	(05061524)	0.86327	(05061624)	0.92660
(05102224)	1.10541	(05110224)	1.14574	(05110224)	
3814745.5	1.64722	(05061524)	1.21862	(05061524)	1.10098
(05102224)	1.21521	(05110224)	1.01983	(05110224)	
3814670.5	2.39071	(05061524)	1.69145	(05102224)	1.53433
(05102224)	1.15959	(05110224)	1.12540	(05101424)	
3814595.5	2.79962	(05061524)	2.04610	(05102224)	1.53735
(05102224)	1.30167	(05101424)	1.27383	(05101424)	
3814520.5	2.43877	(05102224)	2.11161	(05102224)	1.64572
(05101424)	1.36853	(05101424)	1.22787	(05120324)	
3814445.5	4.16308	(05102224)	2.14620	(05101424)	1.80218
(05101424)	1.71697	(05111424)	2.13961	(05111424)	
3814370.5	5.34379	(05060524)	3.27319	(05060524)	2.76520
(05111424)	3.03239	(05111424)	3.82769	(05111424)	
3814295.5	7.45963	(05060524)	4.50928	(05111424)	3.43533
(05111424)	3.72130	(05111424)	7.49974	(05101824)	
3814220.5	14.12817	(05101824)	5.47306	(05112324)	3.91450
(05112324)	3.04712	(05112324)	9.54058	(05021424)	
3814145.5	32.17342	(05021424)	32.98439	(05021424)	4.94857
(05011124)	6.05400	(05021424)	4.24339	(05011124)	
3814070.5	16.81149	(05112124)	39.57608	(05011324)	6.06545
(05011124)	5.24550	(05011124)	4.89735	(05021424)	
3813995.5	64.92702	(05112024)	38.07612	(05112024)	29.30585
(05111824)	26.04971	(05103124)	3.78680	(05120824)	
3813920.5	50.72437	(05112024)	46.22133	(05112024)	37.93714
(05112024)	4.88725	(05020924)	4.34307	(05103124)	
3813845.5	34.89982	(05122024)	37.84372	(05112024)	28.35883
(05112024)	22.26115	(05112024)	27.63395	(05111824)	
3813770.5	21.82576	(05122024)	28.64157	(05122024)	26.57915
(05122024)	28.63877	(05112024)	22.95106	(05112024)	
3813695.5	15.45592	(05013124)	22.09712	(05122024)	21.52951
(05122024)	21.84299	(05112024)	22.04619	(05112024)	
3813620.5	11.11023	(05013124)	13.59626	(05122024)	16.69372
(05122024)	17.29030	(05122024)	17.57587	(05112024)	
3813545.5	8.20024	(05013124)	10.37112	(05013124)	12.66717
(05122024)	14.13882	(05122024)	13.33266	(05122024)	
3813470.5	6.34496	(05011824)	8.24172	(05013124)	9.59691
(05122024)	11.57568	(05122024)	11.92016	(05122024)	
3813395.5	5.40304	(05011824)	6.54724	(05013124)	7.89840
(05013124)	9.27122	(05122024)	10.35505	(05122024)	
3813320.5	4.72314	(05011824)	5.20688	(05013124)	6.54093
(05013124)	7.26111	(05122024)	8.70250	(05122024)	
3813245.5	4.45266	(05011824)	4.41903	(05013124)	5.40197
(05013124)	6.21578	(05013124)	7.14312	(05122024)	
3813170.5	4.28732	(05011824)	3.95328	(05011824)	4.55288
(05013124)	5.36137	(05013124)	5.76905	(05122024)	

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 350420.28	350495.28	350570.28	350645.28	350720.28
3816095.5	0.81904 (05020724)	0.48136m(05050524)	0.55986m(05050524)	0.29280 (05061524)	0.49491 (05012624)
3816020.5	0.83890 (05020724)	1.06652 (05060224)	0.96898m(05050524)	0.73767 (05012624)	0.88095 (05102224)
3815945.5	2.61492 (05020724)	1.65484 (05060224)	1.86352 (05102824)	1.49319 (05012624)	2.49676 (05081524)
3815870.5	2.97736 (05020724)	2.63529 (05102824)	2.65309 (05102824)	2.08530 (05081524)	2.67453 (05102824)
3815795.5	2.84300 (05020724)	2.82041 (05102824)	2.57638 (05102824)	2.77140 (05102824)	3.19237 (05102824)
3815720.5	2.90448 (05102824)	3.95997 (05102824)	4.02957 (05102824)	2.38749 (05102824)	3.61329 (05102824)
3815645.5	3.58235 (05102824)	4.71885 (05102824)	5.06769 (05102824)	4.46262 (05102824)	3.74679 (05102824)
3815570.5	3.08463 (05102824)	4.16901 (05102824)	5.12076 (05102824)	4.07256 (05102824)	3.56377 (05092124)
3815495.5	1.15162m(05050524)	2.70497 (05081524)	3.32922 (05102224)	3.24617 (05010124)	3.46611 (05092124)
3815420.5	2.08398m(05050524)	3.33583 (05102224)	3.48302 (05102224)	3.36265 (05120724)	3.69774 (05061824)
3815345.5	1.70323 (05102224)	2.16024 (05102224)	2.35586 (05102224)	4.18859 (05120724)	2.84452 (05120724)
3815270.5	0.93282 (05102224)	0.71161 (05110224)	0.97485 (05102224)	1.78189 (05120724)	0.79351 (05110224)
3815195.5	0.65802 (05102224)	0.88318 (05110224)	0.98308 (05110224)	0.87774 (05110224)	0.65864 (05102224)
3815120.5	0.82766 (05110224)	1.00475 (05110224)	0.96009 (05110224)	0.73390 (05110224)	0.59034 (05101424)
3815045.5	0.99841 (05110224)	1.03330 (05110224)	0.83735 (05110224)	0.61919 (05101424)	0.59848 (05101424)

3814970.5 | 1.08726 (05110224) 0.94616 (05110224) 0.69474
(05101424) 0.66821 (05101424) 0.56849 (05101424)
3814895.5 | 1.05184 (05110224) 0.82962 (05102224) 0.76570
(05101424) 0.80299 (05120324) 0.84360 (05120324)
3814820.5 | 0.89750 (05101424) 0.94657 (05102224) 1.17732
(05120324) 1.81017 (05120324) 3.21159 (05120224)
3814745.5 | 0.91521 (05101424) 0.85336 (05101424) 0.68834
(05101424) 0.72503 (05120324) 0.70462 (05120324)
3814670.5 | 1.04192 (05101424) 0.79458 (05101424) 0.75455
(05103124) 1.34068 (05120324) 2.04366 (05120324)
3814595.5 | 1.27661 (05120324) 1.81928 (05120324) 1.23543
(05111424) 2.06310 (05111424) 9.60841 (05102824)
3814520.5 | 3.22838 (05120324) 5.50499 (05102824) 6.47467
(05102824) 3.07932 (05102824) 8.89324 (05102824)
3814445.5 | 2.36378 (05111424) 3.16248 (05111424) 9.91379
(05102824) 7.76815 (05102824) 10.04314 (05102824)
3814370.5 | 3.41025 (05111424) 2.06259 (05111424) 2.23285
(05111424) 8.03126 (05110224) 5.30206 (05121824)
3814295.5 | 14.99948 (05102924) 10.41724 (05110224) 6.34478
(05101824) 7.13503 (05101824) 6.26428 (05101824)
3814220.5 | 16.03048 (05021424) 18.56273 (05021424) 15.76331
(05021424) 11.33877 (05021424) 2.78526 (05010524)
3814145.5 | 24.86891 (05021424) 25.98639 (05021424) 21.14666
(05021424) 15.68249 (05021424) 17.17927 (05021424)
3814070.5 | 30.49901m(05103024) 27.00509m(05103024) 20.63142
(05021424) 19.38553 (05021424) 18.07409 (05021424)
3813995.5 | 29.38088m(05103024) 26.72757m(05103024)
22.52187m(05103024) 17.14574m(05103024) 14.16710 (05021424)
3813920.5 | 16.60871 (05103124) 13.63537 (05103124)
20.73650m(05103024) 17.86145m(05103024) 14.31425m(05103024)
3813845.5 | 13.74638 (05103124) 19.72141 (05103124) 16.66116
(05103124) 10.84902 (05103124) 16.29756m(05103024)
3813770.5 | 23.04156 (05111824) 20.68252 (05120524) 18.25601
(05103124) 17.06304 (05103124) 15.59864 (05103124)
3813695.5 | 18.77334 (05112024) 17.61184 (05111824) 12.99332
(05120524) 15.00319 (05103124) 14.52879 (05103124)
3813620.5 | 15.79827 (05112024) 15.35529 (05112024) 14.59233
(05112024) 14.33045 (05120524) 12.42593 (05120524)
3813545.5 | 13.12526 (05120624) 13.86359 (05112024) 12.24605
(05112024) 11.86400 (05112024) 10.81652 (05120524)
3813470.5 | 10.90787 (05122024) 10.96782 (05120624) 11.82035
(05012324) 11.25169 (05112024) 9.98386 (05112024)
3813395.5 | 10.12908 (05122024) 9.33886 (05120624) 9.79805
(05120624) 10.77929 (05012324) 9.53631 (05011524)
3813320.5 | 9.17531 (05122024) 8.63661 (05122024) 8.39040
(05120624) 9.50005 (05120624) 8.15629 (05012324)
3813245.5 | 8.06378 (05122024) 8.09636 (05122024) 7.35137
(05122024) 7.43810 (05120624) 8.59337 (05120624)
3813170.5 | 6.87825 (05122024) 7.36457 (05122024) 7.08647
(05122024) 6.39308 (05120624) 7.05705 (05120624)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 , AREA1 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS) 350795.28	350870.28	350945.28	351020.28	351095.28
3816095.5	2.06841 (05081524)	1.23729 (05102224)	0.78150 (05102224)	0.67450 (05102224)	1.67927 (05120724)
3816020.5	1.54543 (05102224)	2.29593 (05102224)	1.08397 (05102224)	2.24389 (05120724)	2.59831 (05120724)
3815945.5	2.27376 (05102224)	1.95707 (05010124)	2.05335 (05120724)	2.73158 (05120724)	2.45896 (05121224)
3815870.5	2.55040 (05102224)	2.18117 (05010124)	2.85830 (05120724)	2.60356 (05121224)	2.54710 (05061824)
3815795.5	3.07476 (05092124)	2.57667 (05092124)	2.71059 (05121224)	2.41431 (05061824)	2.45008 (05061824)
3815720.5	3.21313 (05092124)	2.82200 (05061824)	2.89503 (05121224)	2.66529 (05061824)	2.31759 (05061824)
3815645.5	3.12730 (05092124)	3.05348 (05121224)	2.98656 (05061824)	2.48917 (05061824)	2.22747 (05051224)
3815570.5	3.08604 (05121224)	2.96069 (05061824)	2.78099 (05061824)	2.49817 (05051224)	2.55241m(05042524)
3815495.5	3.50297 (05121224)	3.02687 (05061824)	2.62846 (05051224)	2.49407 (05051224)	2.51035m(05042524)
3815420.5	3.64220 (05121224)	3.04821 (05121224)	2.75023 (05051224)	2.64820m(05042524)	3.04161 (05062024)
3815345.5	3.58744 (05051224)	3.19965 (05051224)	3.33913 (05062024)	3.51166 (05062024)	3.66213 (05062024)
3815270.5	3.39065 (05051224)	3.58272m(05042524)	3.03281m(05042524)	4.88323 (05062024)	4.16109 (05062024)
3815195.5	2.20339 (05102724)	3.06153 (05102724)	3.51562 (05102724)	3.37170 (05062024)	5.24483 (05062024)
3815120.5	0.81124 (05102224)	0.93820 (05102724)	0.92489 (05120324)	1.14704 (05120324)	3.05733 (05120224)
3815045.5	0.54584 (05120324)	0.74880 (05120324)	1.09450 (05120324)	2.95722 (05062024)	2.80814m(05031424)

3814970.5 | 0.88299 (05120324) 0.83887 (05120324) 0.68734 (05120324) 1.02144 (05120324) 2.51286 (05120324)
3814895.5 | 1.46285 (05120324) 2.64096 (05120324) 1.26210 (05120324) 2.18617 (05120324) 3.84801 (05102824)
3814820.5 | 3.95133 (05120324) 5.18055 (05102824) 3.60822 (05102824) 2.86507 (05102824) 6.45882 (05102824)
3814745.5 | 3.40920 (05120324) 7.44743 (05102824) 6.24947 (05102824) 6.80952 (05102824) 4.10439 (05102824)
3814670.5 | 1.82904 (05111424) 7.60326 (05102824) 6.93160 (05102824) 6.14968 (05102824) 6.45097 (05102824)
3814595.5 | 7.67969 (05102824) 7.16029 (05102824) 6.68030 (05102824) 5.59192 (05110224) 6.44955 (05102824)
3814520.5 | 9.98951 (05102824) 8.47036 (05102824) 7.46090 (05102824) 7.13619 (05010124) 4.92267 (05110224)
3814445.5 | 8.43025 (05110224) 5.57081 (05110224) 7.81052 (05010124) 6.15957 (05110224) 6.78132 (05110224)
3814370.5 | 10.17354 (05110224) 9.72931 (05012724) 9.20548 (05012724) 6.97180 (05012724) 7.07387 (05012724)
3814295.5 | 10.38782 (05110224) 10.58875 (05110224) 7.94206 (05110224) 7.24446 (05012724) 6.91845 (05012724)
3814220.5 | 4.78755 (05010524) 11.12400 (05110224) 9.52917 (05110224) 7.24789 (05110224) 6.56163 (05110224)
3814145.5 | 11.93375 (05021424) 12.35135 (05021424) 10.86721 (05021424) 10.29176 (05021424) 7.66795 (05021424)
3814070.5 | 16.33897 (05021424) 15.25315 (05021424) 11.50010 (05021424) 12.33094 (05021424) 9.36684 (05021424)
3813995.5 | 14.18315 (05021424) 12.19775 (05021424) 11.35966 (05021424) 11.64481 (05021424) 10.39599 (05021424)
3813920.5 | 12.12576m(05103024) 10.44497m(05103024) 9.34179 (05021424) 8.96564 (05021424) 8.59824 (05021424)
3813845.5 | 13.68814m(05103024) 11.17945m(05103024) 9.77690m(05103024) 8.48968m(05103024) 7.43522m(05103024)
3813770.5 | 14.07349m(05103024) 13.11883m(05103024) 11.34706m(05103024) 9.14354m(05103024) 8.06913m(05103024)
3813695.5 | 10.98808 (05103124) 10.23663m(05103024) 9.72367m(05103024) 8.98738m(05103024) 8.29963m(05103024)
3813620.5 | 9.88330 (05103124) 9.10022 (05103124) 8.28294m(05103024) 8.18440m(05103024) 7.90738m(05103024)
3813545.5 | 8.96699 (05120524) 8.35241 (05103124) 7.97419 (05103124) 7.43752 (05103124) 6.90612m(05103024)
3813470.5 | 8.32662 (05120524) 7.64332 (05120524) 7.26262 (05120524) 6.99630 (05103124) 6.67225 (05103124)
3813395.5 | 7.75133 (05112024) 6.91357 (05112224) 6.62365 (05120524) 6.39446 (05120524) 6.14378 (05103124)
3813320.5 | 7.12492 (05112024) 6.53197 (05112224) 6.21224 (05112224) 5.78684 (05120524) 5.65277 (05120524)
3813245.5 | 6.81180 (05012324) 5.82010 (05112024) 5.81161 (05112224) 5.61346 (05112224) 5.20359 (05112224)
3813170.5 | 6.72295 (05012324) 5.96856 (05012324) 5.17896 (05012324) 5.20939 (05112224) 5.10094 (05112224)

**MODELOPTs: RegDFAULT CONC ELEV

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , AREA1 ,

*** 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)
350508.88	3814829.88	1.01631	(05102224)	350283.70	3815266.49	0.82679	(05061524)
350539.82	3814604.70	1.01683	(05111424)	350467.63	3814245.45	14.37218	(05021424)
350008.68	3813941.20	55.27751	(05122024)	350147.91	3813936.04	49.14827	(05112024)
350557.01	3814453.44	10.21064	(05102824)	349200.78	3815251.02	0.72258	(05122624)
349173.28	3815257.89	0.62088	(05110924)	348862.58	3814174.11	4.41592	(05122324)
348862.58	3815183.55	0.90517	(05010424)	350494.71	3815179.68	0.91315	(05110224)
350486.97	3814363.62	2.06302	(05111424)	350216.24	3814363.62	2.92062	(05111424)
350216.24	3814193.45	3.72548	(05112324)	349991.92	3813969.12	52.18027	(05122024)
349794.67	3813961.39	24.19171	(05011824)	349597.42	3814065.81	17.04897	(05123024)
349121.71	3814085.15	5.49216	(05122324)				

**MODELOPTs: RegDFAULT CONC   ELEV

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

** CONC OF PM_2.5   IN MICROGRAMS/M**3 **

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

ALL        1ST HIGHEST VALUE IS      15.17969 AT (  350045.28,  3813995.46,
379.10,   524.00,    0.00)  GC  UCART1
           2ND HIGHEST VALUE IS      13.30730 AT (  349670.28,  3814370.46,
390.90,   524.00,    0.00)  GC  UCART1
           3RD HIGHEST VALUE IS      12.57866 AT (  350120.28,  3814070.46,
390.30,   520.00,    0.00)  GC  UCART1
           4TH HIGHEST VALUE IS      11.52084 AT (  349745.28,  3814070.46,
386.70,   524.00,    0.00)  GC  UCART1
           5TH HIGHEST VALUE IS      11.49121 AT (  349820.28,  3814070.46,
376.60,   524.00,    0.00)  GC  UCART1
           6TH HIGHEST VALUE IS      11.29366 AT (  349595.28,  3814295.46,
383.90,   524.00,    0.00)  GC  UCART1
           7TH HIGHEST VALUE IS      11.08776 AT (  349991.92,  3813969.12,
381.07,   520.00,    0.00)  DC
           8TH HIGHEST VALUE IS      11.08259 AT (  350008.68,  3813941.20,
374.50,   524.00,    0.00)  DC
           9TH HIGHEST VALUE IS      10.75750 AT (  349595.28,  3814370.46,
386.90,   524.00,    0.00)  GC  UCART1
          10TH HIGHEST VALUE IS      10.17640 AT (  349670.28,  3814145.46,
390.60,   524.00,    0.00)  GC  UCART1

 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
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*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 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 64.92702 ON 05112024: AT (350045.28, 3813995.46, 379.10, 524.00, 0.00) GC		UCART1

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

```
 *** 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          204 Informational Message(s)

 A Total of         8760 Hours Were Processed

 A Total of            0 Calm Hours Identified

 A Total of          204 Missing Hours Identified (  2.33 Percent)


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


    ********   WARNING MESSAGES   ********
 SO W320      45  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS
 SO W320      46  VPARM:Input Parameter May Be Out-of-Range for Parameter
QS

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
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