308 and 310 Phelps Road
Residential Subdivision Project

Initial Study / Mitigated Negative Declaration

City of San Carlos

600 Elm Street, San Carlos, CA 94070

April 2023

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308 and 310 Phelps Road Residential Subdivision Project
Draft Mitigated Negative Declaration

Project: 308 and 310 Phelps Road Residential Subdivision Project

Project Proponent: John Suppes, Clarum Homes, on behalf of Phelps San Claros LLC.
412 Olive Avenue
P.O Box 60970
Palo Alto, CA 94306

Lead Agency: City of San Carlos

Availability of Documents: The Initial Study for this Mitigated Negative Declaration is available for review at:

City of San Carlos
600 Elm Street
San Carlos, CA 94070
(650) 802-4207
Contact – Rucha Dande, Senior Planner

PROJECT DESCRIPTION

The City of San Carlos has received an application for a subdivision development consisting of the construction of nine new single-family homes on a hillside in the City of San Carlos. The proposed project is located at 308 and 310 Phelps Road in the northern portion of City of San Carlos on three parcels totaling approximately 3.12 acres (Assessor Parcel Numbers 049-292-050, 049-292-040, and 049-292-060). The site is located in a residential area surrounded by existing development and has previously been developed with two single-family homes that are now demolished. The site is bordered by Arundel Elementary School to the south-southwest, Arguello Park to the west, and single-family residences to the north, south, and east. The project site has an incorrect General Plan land use designation of Open Space (OS). The City of San Carlos is working on correcting the General Plan to correct the General Plan mapping error, resulting in a General Plan designation of Single Family, Low Density. This correction is anticipated to be complete prior to public hearing for this project. The project entitlements include a General Plan Amendment to designate the site as Single Family and a rezoning to the RS-6 zone.

Construction of the project would commence in 2023, last approximately 22 months, and become operational in 2024. During construction, approximately 10,740 CY of soil would be removed from the site. Site preparation would also require the removal of 138 trees, located throughout the project site. Once operational, nine residences and eight (8) Accessory Dwelling Units (ADU) would provide housing for approximately 24 people. The project would provide a total of 41 vehicular parking spaces, including 36 private parking spaces (4 per residence) and five guest parking spaces located along Spring Valley Way. Vehicular access to the site would be provided by a new driveway off Phelps Road and an extension of Spring Valley Way throughout the project site. The project proposal includes the improvement of Sheldon Avenue, an existing unimproved roadway, as a paved emergency vehicle access road to improve emergency access and ingress and egress conditions. The homes' modern architectural design would consist primarily of fiber cement siding, board formed concrete siding, smooth black stucco, light gray stucco, standing seam roof and wall cladding, natural wood soffits, and aluminum framed windows. The proposed project would feature extensive landscaping, including native grassland and drought tolerant and low water use plantings throughout the site.

PROPOSED FINDINGS

The City of San Carlos has reviewed the attached Initial Study and determined that the Initial Study identifies potentially significant project effects, but:

1. Revisions to the project plans incorporated herein as mitigation would avoid or mitigate the effects to a point where no significant effects would occur; and
2. There is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment. Pursuant to California Environmental Quality Act (CEQA) Guidelines Sections 15064(f)(3) and 15070(b), a Mitigated Negative Declaration has been prepared for consideration as the appropriate CEQA document for the project.

BASIS OF FINDINGS

Based on the environmental evaluation presented in the attached Initial Study, the project would not cause significant adverse effects related to: aesthetics, agricultural and forestry resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous emissions, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation, utilities/service systems, and wildfire. The project does not have impacts that are individually limited, but cumulatively considerable.

The environmental evaluation has determined that the project would have potentially significant impacts on air quality biological resources, cultural resources, geology/paleontological resources, and tribal cultural resources as described below. Mitigation measures have been recommended and are included in the project to reduce potentially significant impacts to less than significant levels.

Mitigation Measures

The Project could result in significant adverse effects to biological resources, cultural resources, geology/paleontological resources, and tribal cultural resources. However, the Project has been revised to include the mitigation measures listed below, which reduce these impacts to a less-than-significant level. With implementation of these mitigation measures, the Project would not substantially degrade the quality of the environment, 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, or substantially reduce the number or restrict the range of a rare or endangered plant or animal. Nor would the Project cause substantial adverse effects on humans, either directly or indirectly.

Impact AIR-1: Construction equipment would generate diesel particulate matter (DPM) emissions that could result in adverse health risks that are above applicable BAAQMD thresholds.

Mitigation Measure AIR-1: To reduce potential, short-term adverse health risks associated with $PM_{2.5}$ emissions, including emissions of DPM generated during project construction activities, the City shall require the project Applicant and/or its designated contractors, contractor's representatives, or other appropriate personnel to comply with the following construction equipment restrictions:

- All mobile construction equipment greater than 50 horsepower in size shall meet with United State Environmental Protection Agency (U.S. EPA) and California Air Resources Board (CARB) Tier IV Exhaust Emission Standards. This may be achieved via the use of equipment with engines that have been certified to meet U.S. EPA and CARB Tier IV emissions standards, or through the use of equipment that has been retrofitted with a CARB-verified diesel emission control strategy (e.g., particulate filter) capable of

reducing exhaust $PM_{2.5}$ emissions to levels that meet U.S. EPA and CARB Tier IV emissions standards.

Effectiveness: This measure would reduce potential carcinogenic health risks by approximately 88.7 percent, and to levels that are below applicable BAAQMD risk thresholds.

Implementation: The Applicant shall include this requirement on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents.

Timing: During construction activities.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of this requirement and verify the construction equipment utilized during construction meet the Tier IV emission standards.

Impact BIO-1. Project activities may result in injury or mortality of Townsend's big-eared bat and pallid bat individuals due to tree removal.

Mitigation Measure BIO-1 The following measures shall be implemented to protect Townsend's big-eared bat and pallid bat during tree removal:

a) Tree removal shall occur during the time of year when bats are most active and detectible (i.e., March 1 – October 15) and will avoid the fall/winter bat torpor period (October 16 – February 28) when bats may be inactive and difficult to detect.

b) No more than 14 days prior to tree removal, a qualified biologist with demonstrated experience with bat ecology shall conduct a pre-activity survey for roosting bats. During the survey the biologist shall look for evidence of bat use in trees. If roosting bats or evidence of use is observed (e.g., guano, urine staining), or if high-quality roost sites are present in areas where evidence of bat use might not be detectable (such as a tree cavity), an evening visual survey utilizing bat acoustic detectors shall be conducted to determine if roosting bats are present and to identify their specific locations. The results of the survey(s) shall be documented.

c) If roosting bats are not detected, project work can proceed as planned. If project activities are not initiated within 14 days of survey completion, the surveys shall be repeated.

d) In the event that a maternity colony is detected, Mitigation Measure BIO-4B shall be implemented to reduce impacts on maternity colonies of Townsend's big-eared bat and pallid bat species to less than significant.

Effectiveness: These measures would minimize impacts on bat species.

Implementation: Applicant or its Contractor.

Timing: Year-round, no more than 48 hours in advance of the start of project construction activities.

Monitoring: The biologist shall prepare a written record of survey results and implementation of any avoidance/minimization measures to be kept on file at the City of San Carlos Planning Department office. The biologist shall coordinate with California Department of Fish and Wildlife to determine the appropriate mitigation and monitoring if a roost is found.

Impact BIO-2: Project activities may result in injury or mortality of dusky-footed woodrats due to project construction including vegetation removal, grading, vehicle traffic, equipment use, and worker foot traffic, particularly if disturbance occurs when woodrats are taking refuge in the existing structures or areas of dense vegetation. Additionally, project-related disturbances may cause woodrats to flee their nests, exposing them to a greater risk of predation. Such impacts would be temporary in nature, occurring only during construction activities.

Mitigation Measure BIO-2. No more than 30 days prior to initial ground disturbance, a pre-construction survey for woodrat nests will be conducted within the project site by a qualified biologist. The survey will consist of walking the project limits and all areas within the project site looking for woodrat nests. If active woodrat nests are observed during the pre-construction survey, they shall be avoided as feasible, and a disturbance-free buffer shall be maintained around the nest. This buffer will be determined by a qualified biologist. Additionally, environmentally sensitive area (ESA) fencing will be installed around active woodrat nests to keep workers, construction equipment, and construction materials out of the area where the nests are located. If active woodrat nests are found within the project boundary during the preconstruction survey and avoidance is not feasible, the woodrats will be evicted from their nests prior to the removal of the nests and onset of ground-disturbing activities to avoid injury or mortality of the woodrats. A qualified biologist will disturb the woodrat nest to the degree that all woodrats leave the nest and seek refuge outside of the project activity area. Subsequently, the nest sticks will be relocated; these materials will be piled at the base of a nearby tree or shrub outside of the activity area. The spacing between relocated nests will not be less than 20 ft, unless a qualified biologist has determined that the habitat can support higher densities of nests.

Effectiveness: These measures would minimize long-term impacts on San Francisco dusky-footed woodrat.

Implementation: Applicant or its Contractor.

Timing: Pre-construction survey no more than 30 days in advance of the start of construction.

Monitoring: The biologist shall prepare a written record of survey results and relocation if implemented.

Impact BIO-3: Construction disturbance during the avian breeding season (February 1 through August 31, for the species expected in this urban location) could result in the incidental loss of eggs or nestlings, either directly through the destruction or disturbance of active nests or indirectly by causing the abandonment of nests. Tree removal at the site could cause destruction of nests, and noise and construction activity could also impact foraging behavior, potentially resulting in the abandonment of nest sites.

Mitigation Measure BIO-3. Nesting Bird Surveys. To ensure that project activities comply with the Migratory Bird Treaty Act and California Fish and Game Code, the following measures shall be implemented:

a) To the extent feasible, construction activities should be scheduled to avoid the avian nesting season. If construction activities are scheduled to take place outside the nesting season, all impacts to nesting birds protected under the MBTA and California Fish and Game Code will be avoided. The nesting season for most birds in San Carlos extends from February 1 through August 31.

b) If it is not possible to schedule construction activities between September 1 and January 31, then pre-construction surveys for nesting birds should be conducted by a qualified biologist to ensure that no nests will be disturbed during project implementation. These

surveys shall be conducted no more than 7 days prior to the initiation of construction activities. During this survey, a qualified biologist will inspect all trees and other potential nesting habitats (e.g., trees, shrubs, and structures) in and immediately adjacent to the impact areas for nests. If an active nest is found sufficiently close to work areas to be disturbed by these activities, the biologist will determine the extent of a construction-free buffer zone to be established around the nest (typically 300 ft for raptors and 100 ft for other species, typically recommended by the California Department of Fish and Wildlife), to ensure that no nests of species protected by the Migratory Bird Treaty Act and California Fish and Game Code will be disturbed during project implementation.

c) If construction activities will not be initiated until after the start of the nesting season, all potential nesting substrates (e.g., bushes, trees, grasses, and other vegetation) that are scheduled to be removed by the Project should be removed prior to the start of the nesting season (e.g., prior to February 1). This will reduce the initiation of nests in the vegetation and reduce potential delays of the Project due to the presence of active nests within these substrates.

Effectiveness: These measures would minimize impacts on bird species.

Implementation: Applicant or its Contractor.

Timing: February 1 through August 31, no more than five days in advance of the start of project construction.

Monitoring: The biologist shall prepare a written record of survey results and implementation of any avoidance/minimization measures to be kept on file at the City of San Carlos Planning Department office. The biologist shall monitor any active nests to determine when young have matured sufficiently to have fledged.

Impact BIO-4: Tree removal could impact non-special-status roosting bats protected by the California Fish and Game Code**.**

Mitigation Measure BIO-4A. Implement Mitigation Measure BIO-1 as above for special-status bats.

Mitigation Measure BIO-4B. If work is planned to occur during the bat maternity season (April 1 – August 31), and an active maternity colony is detected in trees, disturbance of active maternity roost sites will be scheduled to take place outside the maternity season (i.e., after August 31 when young are able to fly and leave the roost) and a disturbance-free buffer zone (determined by a qualified bat biologist) will be implemented until the end of the bat maternity season (August 31). Because bats may still occupy the roost site after August 31, a qualified biologist shall inspect the roost to determine if bats have vacated to the roost or are still present. If bats are still present, they should be humane deterred or excluded under the direction of a qualified biologist.

For trees planned for removal, or if presence is assumed, a two-step tree removal process shall be utilized under the supervision of the qualified biologist. Two-step tree removal involves removal of all branches of the tree that do not provide roosting habitat on the first day, and then removing the remaining portion of the tree on the following day (day 2). If deterrence and/or eviction is performed, the results of these activities shall be documented.

Mitigation Measure BIO-4C. If tree removal is planned to occur outside the bat maternity season and roosting bats are detected, or individual/non-breeding bats are detected during the maternity season, the individual(s) will be humanely deterred or excluded when bats are most active (March 1 – October 15).

Effectiveness: These measures would minimize impacts on bat species.

Implementation: Applicant or its Contractor

Timing: Prior to start of project construction activities.

Monitoring: The biologist shall prepare a written record of survey results and implementation of any avoidance/minimization measures to be kept on file at the City of San Carlos Planning Department office. The biologist shall coordinate with CDFW to determine the appropriate mitigation and monitoring if a roost is found.

Impact CUL-1: Project construction may unearth or disturb previously unidentified buried archaeological resources during project construction.

Mitigation Measure CUL-1: Protection of Archaeological Resources. In the event archaeological resources are unearthed during ground-disturbing activities, all ground-disturbing activities within 100 feet of the find shall be halted so that the find can be evaluated. Ground moving activities shall not be allowed to continue until a qualified archaeologist has examined the newly discovered artifact(s) and has evaluated the area of the find.

All archaeological resources unearthed by project construction activities shall be evaluated by a qualified professional archaeologist, who meets the U.S. Secretary of the Interior's Professional Qualifications and Standards.

All Native American artifacts (tribal finds) shall be considered as a significant Tribal Cultural Resource, pursuant to PRC 21074 until the lead agency has enough evidence to make a determination of significance.

The City shall coordinate with the archaeologist to develop an appropriate treatment plan for the resources. The plan may include implementation of archaeological data recovery excavations to address treatment of the resource along with subsequent laboratory processing and analysis. If appropriate, the archaeologist may introduce archaeological monitoring on all or part of the site. An archaeological report will be written detailing all archaeological finds and submitted to the City and the Northwest Information Center.

Effectiveness: This measure would minimize and/or avoid impacts on undetected archaeological resources to less than significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event cultural resources are discovered.

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. An archaeological report, if appropriate, will be written detailing all archaeological finds and submitted to the City and the Northwest Information Center.

Impact CUL-2: Project construction, particularly excavation of the building foundations and development of the emergency access road, may disturb human remains during project construction.

Mitigation Measure CUL-2: Protection of Human Remains. If human remains are unearthed during ground-disturbing activities, Section 7050.5(b) of the California Health and Safety code will be implemented. Section 7050.5(b) states:

> In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

The County Coroner, upon recognizing the remains as being of Native American origin, is responsible to contact the Native American Heritage Commission (NAHC) within 24 hours. The Commission has various powers and duties, including the appointment of a Most Likely Descendant (MLD) to the Project. The MLD, or in lieu of the MLD, the NAHC, has the responsibility to provide guidance as to the ultimate disposition of any Native American remains.

Effectiveness: This measure would reduce impacts on previously unknown human remains to less than significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event human remains are discovered.

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. The County Coroner will detail the findings in a coroner's report.

Impact GEO-1: Project construction could unearth paleontological resources, including fossils.

Mitigation Measure GEO-1: Protection of Paleontological Resources. If paleontological resources are discovered during construction, ground-disturbing activities shall halt immediately until a qualified paleontologist can assess the significance of the discovery. Depending on determinations made by the paleontologist, work may either be allowed to continue once the discovery has been recorded, or if recommended by the paleontologist, recovery of the resource may be required, in which ground-disturbing activity within the area of the find will be temporarily halted until the resource is recovered. If treatment and salvage is required, recommendations shall be consistent with Society of Vertebrate Paleontology guidelines and current professional standards.

Effectiveness: This measure would reduce impacts to paleontological resources to less than significant.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s)

shall implement this measure in the event any paleontological resources are discovered.

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of paleontological mitigation. If paleontological resources are uncovered, a report shall be prepared by the qualified paleontologist describing the find and its deposition.

Impact TRA-1: Project construction related vehicles and equipment would interact with other vehicles, bicyclists, and pedestrians accessing the adjacent residences and Arundel Elementary School and could create traffic safety hazards.

Mitigation Measure TRA-1: Traffic Control Plan. The Applicant or its contractor(s) shall prepare and implement a traffic control plan to reduce traffic impacts on the roadways at and near the work site, as well as to reduce potential traffic safety hazards and ensure adequate access for emergency responders and construction vehicles, as appropriate. To the extent applicable, the traffic control plan shall conform to the California Manual on Uniform Traffic Control Devices (MUTCD), Part 6 (Temporary Traffic Control) (Caltrans 2014). The traffic control plan shall include, but not be limited to, the following elements:

- Circulation and detour plans to minimize impacts on local road circulation during road and lane closures. Flaggers and/or signage shall be used to guide vehicles through and/or around the construction zone.
- Identifying truck routes designated by the City. Haul routes that minimize truck traffic on local roadways shall be utilized to the extent possible.
- Sufficient staging areas for trucks accessing construction zones to minimize disruption of access to adjacent public right-of-ways.
- Designate on-site parking for construction workers to avoid or minimize construction parking on public streets.
- Controlling and monitoring construction vehicle movement through the enforcement of standard construction specifications by on-site inspectors
- Scheduling truck trips outside the peak morning and evening commute hours and Arundel Elementary School drop-off and pick-up times to the greatest extent possible.
- Limiting the duration of road and lane closures to the extent possible.
- Ensuring safe and continuous vehicular, pedestrian and bicycle access to Arundel Elementary School and Arguello Park, Silicon Valley Tennis Club, and local residents on Phelps Road, Spring Valley Way and the surrounding neighborhoods.
- Implementing roadside safety protocols. Advance “Road Work Ahead” warning and speed control signs (including those informing drivers of State legislated double fines for speed infractions in a construction zone) shall be posted to reduce speeds and provide safe traffic flow through the work zone.
- Ensure continuous access for mail and/or delivery services.
- Coordinating construction administrators of emergency service providers (including all fire protection agencies), and recreational facility managers. Operators shall be notified at least one month in advance of the timing, location, and duration of construction

activities and the locations of detours and lane closures, where applicable. All roads shall remain passable to emergency service vehicles at all times.

- Repairing and restoring affected roadway rights-of-way to their original condition after construction is completed.

Effectiveness: This measure would reduce traffic impacts to less than significant.

Implementation: by Applicant or its Contractor

Timing: Prior to (preparation of construction traffic management plan) and during construction (implementation of the plan).

Monitoring: The construction traffic management plan shall be included in final project design and construction documents.

Impact TRA-2: The project does not meet the Redwood City-San Carlos Fire Department's (RC-SCFD) standards for minimum roadway width (20-foot minimum) for paving the existing dirt road at Sheldon Avenue and maximum roadway slopes (10 percent) at several points along the proposed Spring Valley Way extension.

Mitigation Measure TRA-2: Emergency Access. The project shall meet all fire access requirements for emergency access or obtain approval of an Alternate Means and Method Review (AMMR) from the RC-SCFD prior to final site plan approval.

Effectiveness: This measure would reduce emergency access impacts to less than significant.

Implementation: by Applicant

Timing: Prior to final site plan approval.

Monitoring: RC-SCFD approval of emergency access shall be incorporated into final project design and construction documents.

RECORD OF PROCEEDINGS AND CUSTODIAN OF DOCUMENTS

The record, upon which all findings and determinations related to the approval of the Project are based, includes the following:

1. The Mitigated Negative Declaration and all documents referenced in or relied upon by the Mitigated Negative Declaration.
2. All information (including written evidence and testimony) provided by City of San Carlos staff to the decision maker(s) relating to the Mitigated Negative Declaration, the approvals, and the Project.
3. All information (including written evidence and testimony) presented to the City of San Carlos by the environmental consultant who prepared the Mitigated Negative Declaration or incorporated into reports presented to the City of San Carlos.
4. All information (including written evidence and testimony) presented to the City of San Carlos from other public agencies and members of the public related to the Project or the Mitigated Negative Declaration.
5. All applications, letters, testimony, and presentations relating to the Project.
6. All other documents composing the record pursuant to Public Resources Code section 21167.6 (e).

The City of San Carlos is the custodian of the documents and other materials that constitute the record of the proceedings upon which the City of San Carlos's decisions are based. The contact for this material is:

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Chapter 1. Introduction

This Initial Study (IS) evaluates the potential environmental effects of developing a nine-lot subdivision on three largely undeveloped parcels in the City of San Carlos (City). This proposed activity constitutes a project under the California Environmental Quality Act (CEQA).

1.1 REGULATORY GUIDANCE

CEQA (Public Resources Code § 21000 et seq.) and the CEQA Guidelines (14 CCR §15000 et seq.) establish the City as the lead agency for the project. The lead agency is defined in CEQA Guidelines Section 15367 as, "the public agency which has the principal responsibility for carrying out or approving a project." The lead agency is responsible for preparing the appropriate environmental review document under CEQA. The San Carlos City Council serves as the decision-making body for the City and is responsible for adopting the CEQA document and approving the project.

CEQA Guidelines Section 15070 states a public agency shall prepare a proposed Negative Declaration or a Mitigated Negative Declaration when:

1. The Initial Study shows that there is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment, or
2. The Initial Study identifies potentially significant effects, but:
    a. Revisions in the project plans made before a proposed Mitigated Negative Declaration and Initial Study are released for public review would avoid the effects or mitigate the effects to a point where no significant effects would occur, and
    b. There is no substantial evidence, in light of the whole record before the agency, that the project as revised may have a significant effect on the environment.

Pursuant to Section 15070, the City has determined a Mitigated Negative Declaration is the appropriate environmental review document for the 308 and 310 Phelps Road Residential Subdivision Project.

To ensure that the mitigation measures and project revisions identified in a Mitigated Negative Declaration are implemented, CEQA Guidelines Section 15097(a) requires the City to adopt a program for monitoring or reporting on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects.

1.2 LEAD AGENCY CONTACT INFORMATION

The lead agency for the project is the City of San Carlos. The contact person for the lead agency is:

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Phone: (650) 802-4207
Email: rdande@cityofsancarlos.org

1.3 DOCUMENT PURPOSE AND ORGANIZATION

The purpose of this document is to evaluate the potential environmental effects of the 308 and 310 Phelps Road Residential Subdivision Project. This document is organized as follows:

- Chapter 1 – Introduction. This chapter introduces the project and describes the purpose and organization of this document.
- Chapter 2 – Project Description. This chapter describes the project location, area, site, objectives, and characteristics.
- Chapter 3 – Environmental Checklist and Responses. This chapter contains the Environmental Checklist that identifies the significance of potential environmental impacts (by environmental issue) and a brief discussion of each impact resulting from implementation of the proposed project. This chapter also contains the Mandatory Findings of Significance.
- Chapter 4 – Report Preparation. This chapter provides a list of those involved in the preparation of this document.
- Appendices
    - Appendix A: Air Quality/GHG Calculations
    - Appendix B: Energy Calculations
    - Appendix C: VMT Analysis

Chapter 2. Project Description

The City of San Carlos has received an application for the 308 and 310 Phelps Road Residential Subdivision Project (project), which would consist of the subdivision of three parcels comprising 3.22 acres into nine lots and construction of nine single-family homes on a largely undeveloped hillside site in the City of San Carlos. The project would be subject to Design Review and other approvals as described in Section 2.5.

2.1 PROJECT LOCATION AND SITE DESCRIPTION

The project site is located at 308 and 310 Phelps Road in the northern portion of City of San Carlos, California, in San Mateo County, along the San Francisco Peninsula, as shown in Figure 2-1 Project Location. San Carlos is bordered by the City of Belmont to the north, the San Francisco Bay to the east, Redwood City to the south, and the Pulgas Ridge Open Space Preserve, Edgewood Park and Natural Reserve, and other open space and Interstate 280 (I-280) to the west.

Regional access to the project site is provided via Highway 101 (Hwy 101), which is an eight-lane freeway to the east of the project site.[1] Access to the project site from Hwy 101 is provided by the Holly Street southbound exit, which runs in the east-west direction. Local access to the project site is provided by Holly Street, State Route 82 (El Camino Real), San Carlos Avenue, and Phelps Road.

The project site is located approximately nine miles southeast of San Francisco International Airport (SFO) via Highway 101. San Carlos Airport is located approximately 1.3 miles to the east of the project site, and the San Carlos Caltrain station is approximately 0.76 miles to the east of the project site.

The approximately 3.12-acre project site consists of three contiguous, up-slope parcels: 308 Phelps Road (2.09 acres, APN: 049-292-050); 310 Phelps Road (0.93 acres, APN: 049-292-040); and an undeveloped strip of land at the northern edge of 308 Phelps Road (0.10 acre, APN: 049-292-060). These three properties are zoned RS-3 and are adjacent to an RS-6 zoning district. The project site previously contained two single-family residences and associated structures built in 1920 and 1937 that were demolished in 2022 under a separate permit. A visually distinctive rocky outcrop exists near the center of the site.

The site is located in a residential area surrounded by existing development (Figure 2-2 Project Vicinity). The site is bordered by Arundel Elementary School to the south-southwest, Arguello Park to the west, and single-family residences to the north, south, and east. Figure 2-3 Existing Site Photos depicts existing conditions on the site and adjacent properties. The site is within walking distance (~one mile) to Downtown San Carlos.

The City of San Carlos 2030 General Plan erroneously designates the project site as Open Space (OS), a land use designation that applies to undeveloped park lands, visually significant open lands, water areas and wildlife habitat. It is not the City's intent that the parcel has this Open Space designation as it occurred through a mapping error. Land designated as open space is intended to remain undeveloped in the future. The City of San Carlos is amending the General Plan to correct the mapping error. Following the adoption of the General Plan corrections to fix the mapping error, the project site's land use designation will be Single-Family, Low Density. This correction will be completed prior to public hearing for this project. The project

[1] For orientation purposes, this Initial Study considers Highway 101 and El Camino Real to run in a north-south direction and San Carlos Avenue in an east-west direction. All references to north, east, south, and west use this same orientation.

includes a General Plan Amendment to redesignate the site to Single-Family . The project site is zoned Single Family, Low Density (RS-3), which is intended for residential densities up to three (3) dwelling units per acre. The project includes a Zoning District Boundary (Zoning Map) amendment to rezone the project site from the RS-3 zone to the RS-6 zone, which would allow up to six (6) dwelling units per acre. The site will remain in the Hillside (H) Overlay zoning district.

The site is largely undeveloped although two abandoned residences formerly occupied the site until 2022 when they were demolished. Now the site contains primarily eucalyptus and native oak trees, along with smaller numbers of several other species of trees, and understory vegetation. A rock outcropping is located in the northern portion of the site. The average cross slope of the site is 34.7 percent. Existing drainage patterns direct stormwater runoff as sheet flow south toward Phelps Road. A partially paved driveway branches off Phelps Road and lead to the former residences.

2.2 PROJECT CHARACTERISTICS

The proposed project would consist of the following activities:

- Demolishing existing hardscape;
- Grading, including tree removal, and off haul of approximately 10,740 CY of soil;
- Extending Spring Valley Way through the project site;
- Constructing a new driveway off Phelps Road and construction of a retaining wall;
- Improving Sheldon Avenue to provide access for emergency services vehicles;
- Installing new utility connections to the project site from Spring Valley Way and Phelps Road;
- Constructing nine new single-family residences;
- Installation of bioretention treatment areas; and
- Landscaping and installation of lighting.

A Homeowners Association would be established to manage and maintain all features and facilities within common areas including landscaping, storm drainage facilities, retaining walls, lighting, etc.

2.2.1 Subdivision Development

Clarum Homes, the project applicant (Applicant), is proposing to subdivide three parcels into nine lots and construct nine single-family residences including Accessory Dwelling Units (ADUs) ranging from 2,536 to 4,646 square feet in size on a predominantly undeveloped hillside in the City of San Carlos. Each of the nine single-family homes would have a ground-level garage and new landscaping. Seven of the nine proposed lots would be less than 10,000 square feet in size, and the two remaining parcels would be at least 40,000 square feet each. The new residences would vary from 3,059 to 4,838 square feet with a minimum of 5.2 percent lot coverage and a maximum of 36 percent lot coverage (Figure 2-4 Proposed Site Plan). All residences would consist of two stories over a basement. Each residence would have two off-street, driveway parking spaces and two garage spaces. Five of the nine proposed lots would each contain one accessory dwelling unit. The Lot 3, 4, and 5 residences would be constructed with basements. The project also includes five onsite guest parking spaces in two different locations within the project. In total, the residences would constitute 34,833 of gross square footage. The project would disturb a total area of 3.81 acres, which includes the entirety of the 3.22-acre project site and an additional 0.58 acres of offsite area for the construction of the new access road. Following project construction, the project site would have 7,591 SF (0.17 acres) of private open space distributed unevenly among Lots 3 through 9 and 3,753 SF (0.09 acres) of common open space.

Spring Valley Way is an existing public street that dead ends at the driveways accessing residences 10 and 20 Spring Valley Way near the eastern portion of the project site. Spring Valley Way would be extended through the project site to provide access to six of the new lots. At the western extent of site, Spring Valley Way would connect to Sheldon Avenue, an existing dirt road through Arguello Park, which would provide an emergency vehicle connection to the site. The project would also construct a new private driveway off Phelps Road to provide access to two of the proposed lots.

Each lot is configured to the existing topography to minimize the amount of grade modifications to the extent feasible. The project includes an exception to the Natural State requirements of the Hillside Overlay zoning district to reflect site-specific conditions. If the exception is approved, the project would be in compliance with the Hillside Overlay Development requirements. The residences would be oriented to take advantage of solar access and reduce disturbance to the natural topography. The proposed grading plan preserves the rocky outcrop near the center of the site.

Table 2-1 shows the lot and building characteristics for the proposed residences.

Table 2-1: Characteristics of Proposed Residences

Lot	Lot Size (sq. ft.)	Site Setbacks*				Lot Coverage (%)	Building Square Footage	Building Height
		F	R	S-L	S-R			
Lot 1	48,527	>19'-0"	>79'-10"	>77'-8"	>29'-6"	5.12	4465**	25’ 6”
Lot 2	40,449	>16'-6"	>92'-3"	>19'-1"	>18'-10"	6.54	4646**	25’
Lot 3	5,999	16'-6"	15'-0"	8'-0"	8'-0"	32.31	3512**	32’ 4”
Lot 4	5,983	18'-9"	15'-6"	8'-0"	9'-3"	32.39	3512**	32’ 4”
Lot 5	5,997	14'-6"	25'-9"	16'-6"	8'-0"	32.32	3512**	32’ 4”
Lot 6	5,999	12'-4"	15'-0'	8'-0"	11'-7"	28.69	3242**	33’ 1”
Lot 7	5,999	10'-0"	22'-5"	8-4"	8'-0"	28.69	3242**	33’ 1”
Lot 8	5,999	11'-9"	15'-0"	42'-0"	14'-9"	19.4	2536	33’ 8”
Lot 9	5,999	12'-0"	22'-0"	23'-3"	10'-10"	28.69	3242**	33’ 1”

Source: John Lum Architecture 2022 (Sheet A0.02)
*F = Front. R = Rear. S-L = Side – Left. S-R = Side – Right.
**Includes square footage of junior accessory dwelling unit.

2.2.2 Architectural Design

The proposed architectural style of the new single-family homes would be contemporary. The façades of the Lot 2, 6, 7, and 9 residences would consist of grey standing seam roof, natural wood soffits (i.e., material that covers the underside of the roof overhang), dark wood siding, smooth black stucco, and light gray stucco. These residences would have aluminum framed windows, and exterior hardscape would consist of natural wood deck and oversized concrete pavers. The Lot 1, 3, 4, 5, and 8 residences would have similar façade materials and landscaping hardscape materials; however, these residences would substitute dark wood siding for natural fiber cement siding in a light brown and would add wall cladding. The Lot 1 and 2 residences would have entry trellis features. The Lots 3, 4, and 5 residences would feature a roof overhang and recessed porch. The Lot, 6, 7, and 9 residences would feature an overhang and porch at the home entryway. The Lot 8 residence would feature a roof overhang and planters. Lots 3 through 9 would have approximately 46.15 to 60.48 percent of the street-facing

façade occupied by an attached garage. The Lot 1 and 2 residence garages would not face the street.

As described previously the new residences would be two-story homes with basements. The proposed residences would range from 25' to 33' 38" in building height (see Table 2-1). See Figure 2-5 Site Rendering - Lots 1, 2 & 3 and Figure 2-6 Site Rendering - Lots 8 & 9 for perspective renderings of the new homes as viewed from Lot 4 and from the Phelps Road entrance.

California Building Code Fire Code Section 7A wildland urban interface building standards would be incorporated into residence construction for protection against wildfires. Each home would be fire sprinklered. All glazed window openings would have tempered glazing for safety and would be thermally broken for energy efficiency. Windows would be operable to promote natural cross-ventilation with a mechanical system.

2.2.3 Site Access, Parking, and Circulation

Access to the project site would be provided via a new driveway off Phelps Road and Spring Valley Way, a private road. Spring Valley Way is accessed by Phelps Road via Arundel Road and terminates at the eastern boundary of the project site. The project proposal includes extending Spring Valley Way through the project site in the east-west direction and connecting the Spring Valley Way extension to Sheldon Avenue, an existing road north of Arguello Park (Figure 2-7 Building Side Exterior Elevations (Lot 1) and Figure 2-8 Building Front and Rear Exterior Elevations (Lot 1)). Sheldon Avenue is a paved public road for approximately 160 feet extending north from its connection with Wellington Drive. It transitions to a paved private road and then a private dirt road as it runs parallel to Arguello Park to the north. The Spring Valley Way extension would provide access to Lots 1 through 7 via Arundel Road and Phelps Roads, and additional emergency vehicle access would be provided by Sheldon Avenue via the connection with Spring Valley Way. The proposed driveway would provide access, including emergency access, to Lots 8 and 9 via Phelps Road. The emergency access road plan complies with new State standards that require roadways in fire hazard areas to have more than one point of ingress and egress, as well as the City's newly adopted Environmental Safety and Public Services Element (Action ESPS-3.14 Condition all new development to incorporate and maintain fire safe design, including two ingress/egress points and emergency vehicle access). The City has required the proposed road extension of Spring Valley Way into Sheldon Avenue to provide two points of ingress/egress to the project site and adequate emergency vehicle access.

The project proposes to improve the publicly owned portion of Sheldon Avenue and have Sheldon Avenue serve as a fire access road to the site. Sheldon Avenue would be widened to 20 feet along most of its length except for one portion of the roadway where the width would be 16.28 feet due to existing topography. The road would consist of eight inches of Caltrans Class II aggregated base rock compacted to 95 percent and overlaid three inches of asphaltic concrete and would be surfaced to have a load-bearing capacity meeting Cal Fire requirements.

Sheldon Avenue would also be improved with biotreatment features, including biotreatment soil and Class II permeable material bound by the roadway and wooden posts set in concrete piers. "No Stopping Fire Lane" signs would be installed along Phelps Road and Spring Valley Way per State Manual on Uniform Traffic Control Devices (CA MUTCD) standards. Curbs along the new emergency access route would be painted traffic red and the curbs would have "Fire Lane" stenciled on the face and top edge of the curbs. Vehicle access would be controlled by a locked gate and vehicular access would be only for emergency vehicles. Sheldon Avenue would remain accessible to pedestrians and cyclists. See Figure 2-9 Emergency Access Road Plan for a depiction of the proposed Sheldon Avenue improvements.

The Spring Valley Way extension through the project site would measure 20 feet in width. The project proposes a 5-foot sidewalk along the left side of several segments of Spring Valley Way within the project site. The Spring Valley Way extension would be constructed with new curbs and gutters along most of its length. The driveway off Phelps Road would measure 20 feet in width at its narrowest point. As part of the construction of the new driveway, the project would remove and replace existing curbs and gutters at the new driveway entrance.

Parking would primarily be provided by two-car garages in each residence. Residence garages would be constructed at-grade. The project proposal also includes five guest parking spaces, two of which would be located on the left side of the Spring Valley Way extension between Lots 5 and 6 and three of which would be located adjacent to the new driveway proposed off Phelps Road. The guest parking stalls off the new driveway would each measure 9 by 19 feet, and the guest parking stalls along the Spring Valley Way extension would each measure 8.5 by 10 feet.

2.2.4 Landscaping Plan and Lighting

Project landscaping would be provided throughout the project site and would consist primarily of naturalized vegetation. The majority of new plantings would consist of seeded native grasses and wildflowers. Transition landscaping between the proposed residences and surrounding open space would consist of drought tolerant and flowering native plants. Private landscaping for the rear and side yards would include low water use vegetation, such as turf lawn substitutes, and native riparian plants for bioretention and screening purposes. The native riparian plants would be selected for wildlife interest and Firewise characteristics. Native riparian plants would also be planted between the proposed driveway and Phelps Road. Oak woodland understory vegetation would be planted primarily along Spring Valley Way and lining the rear, front, and/or side yards of several of the proposed residences. The project proposes to plant 28 boxed specimen oak trees throughout the site. The project landscaping plan includes tree replacement required by the San Carlos Protected Tree Ordinance per the San Carlos Preferred Tree List. See Figure 2-10 Landscaping Plan for the overall site landscaping plan.

Proposed hardscape landscaping features include crushed stone pathways, board-form concrete site walls, and oversized pavers. Eight of the nine lots would have retaining walls in the front and rear setback. Retaining walls for Lots 1 through 7 would measure six feet high, Lot 8 would not have retaining walls, and Lot 9's retaining walls would measure four feet in height. An additional retaining wall measuring 4' 6" would be constructed between the southern lot line of Lot 1 and Spring Valley Way.

The project proposes the removal of 138 of the 149 existing onsite and neighboring trees. Onsite trees include primarily non-native eucalyptus trees and native oak trees. Project grading would remove a high portion of the existing trees onsite, including all existing eucalyptus trees and some non-heritage native oaks. The project would implement a tree protection plan to protect the existing trees that would remain onsite.

The proposed residences would be visible from Spring Valley Way, a private road, and semi-visible from Phelps Road, a public road. New landscaping would partially block views of the residences at Lot 8 and 9 from view from Phelps Road from the southwest.

The project's proposed lighting plan includes landscape light fixtures installed on each lot and exterior fixtures affixed to each proposed residence. Proposed landscape light fixtures include bollard driveway lights, path lights, and wall step lights. All proposed landscape lights are fully shielded and downward facing. The proposed landscape lighting is intended to illuminate driveways and pathways. Each proposed residence would be outfitted with indirect wall-mounted exterior light fixtures along the ground floor level of the residence. Exterior wall-mounted fixtures would be downward facing and full shielded.

Municipal Code Section 18.15.070 Lighting and Illumination establishes lighting standards for all new development and additions that expand existing floor area by ten percent or more. In residential districts, outdoor lighting cannot exceed 16 feet in height. Section 18.15.070 specifies permitted lighting fixture types, prohibited lighting types, and requirements to reduce glare and prevent light trespass. The project's proposed lighting plan must comply with Municipal Code Section 18.15.070.

2.2.5 Utilities

Implementation of the proposed project would require the installation of additional on- and off-site utility infrastructure. Utilities at the site would include potable water service, sanitary sewer service, natural gas and electricity, and stormwater management features. Table 2-2 summarizes the utility improvements proposed to facilitate the project. Figure 2-11 Utility Plan shows the proposed project's utility infrastructure and connections. Figure 2-12 Stormwater Control Plan provided a detailed depiction of the proposed on-site Drainage Management Areas (DMAs) and approach to runoff collection and treatment.

Table 2-2: Utility Improvements

Utility	Proposed Improvement
Potable Water Supply	New 10-inch water line along the proposed extension of Spring Valley Way to serve Lots 1 to 7 connecting to new 10-inch water main in Spring Valley Way. The new 10-inch water main would the replace existing 6-inch water main in Spring Valley Way. New 6-inch line connecting to existing 6-inch water line Phelps Road to serve Lots 8 and 9. Final sprinkler design for Lots 8 and 9 (pending building permit) may require additional water line upgrade but is not currently anticipated. New 10-inch water line along Sheldon Ave to serve proposed hydrant on paved fire access road connecting to new 10-inch water line in Sheldon Ave. The new 10-inch water line would replace the existing 4-inch water line in Sheldon Ave
Fire Water Supply	Three new fire hydrants would be installed near Lots 3, 5, and 7 along the proposed extension of Spring Valley Way.
Sanitary Sewer	New 8-inch sewer line along the proposed extension of Spring Valley Way to serve Lots 1 to 7 connecting to the existing 6-inch sewer line in Spring Valley Way. New 8-inch line connecting to existing 8-inch sewer line in Phelps Road to serve lots 8 and 9.
Storm Drainage	New 12-inch storm drain line along the proposed extension of Spring Valley Way and new 12-inch storm drain line along perimeter of Lots 7, 8, and 9 tying into the new bioretention treatment area. New Bioretention treatment area to be metered into new connection to existing 18-inch storm drain main in Phelps Road. New 12-inch storm drain line at the perimeter of lots 9 and 2 also tying into new connection to existing 18-inch storm drain main in Phelps Road.
Electricity/Natural Gas	Power and gas lines serving project lots would be provided in a joint utility trench in project roads tying into existing connections at Phelps Road and Spring Valley Way.

2.3 PROJECT CONSTRUCTION

Construction of the proposed project is anticipated to commence in 2023 and last approximately 22 months based on information provided by the Applicant. Construction activities would generally entail grading and excavation for building pads, construction of building foundations, building construction, trenching and installment of utilities infrastructure, and interior and finishing work (e.g., architectural coatings and landscaping).

2.3.1 Construction Equipment and Staging

Project construction will involve the use of heavy-duty, off-road construction equipment during all phases of site construction including demolition of the hardscape remaining from the demolished residences; tree and vegetation removal; site preparation; grading; drainage, utility and building construction; and paving. The equipment anticipated per construction activity is listed in Table 2-3.

Table 2-3: Construction Equipment

Project Phase	Equipment
Demolition	Backhoe, concrete/industrial saw, dozer, dumpsters/tender, excavator, front end loader, rubber-tired loader, skid steer loader, sweeper/scrubber
Site Preparation	Backhoe, concrete/industrial saw, compactor, dozer, dumpsters/tender, excavator, grader, front end loader, rubber-tired loader, skid steer loader, sweeper/scrubber
Grading	Backhoe, compactor, dozer, excavator, grader, front end loader, rubber-tired loader, skid steer loader, sweeper/scrubber
Building Construction	Cement and mortar mixer, concrete/industrial saw, compactor, compressor, dumpsters/tender, forklift, generators, pressure washer, pumps, rout terrain forklift, skid steer loader, sweeper/scrubber
Paving	Backhoe, concrete/industrial saw, compactor, grader, front end loader, rubber-tired loader, paving equipment, roller, signal board, skid steer loader, sweepers/scrubber
Source: Project Applicant (CEQA Data Request, May 31, 2022)	

2.3.2 Site Clearing and Earthwork

During construction, all existing hardscape and old utility infrastructure, including the gravel road and retaining walls, would be removed from the site. The project would remove and replace curbs and gutters on a portion of Phelps Road near the proposed new driveway and repave part of a driveway offsite off of Spring Valley Way. The project proposes to relocate an existing fire hydrant and remove an existing water meter offsite on Spring Valley Way and remove existing electrical lines and an existing sanitary sewer lateral onsite. Site preparation would also require the removal of 138 trees located throughout the site. Existing trees proposed to remain would be protected during construction through adherence to the proposed tree protection plan.

Project construction would involve substantial grading estimated at 18,760 cubic yards (CY) of cut and 8,020 CY of fill, resulting in 10,740 CY of material hauled offsite (see Figure 2-13 Grading and Drainage Plan). The project applicant estimates that soil export will require roughly 900 truck trips (based on a 12 CY haul truck) and an additional 45 truck trips are expected to be generated by other construction activity such as material supplies. Grading work would be limited to the hours of 8:00 a.m. until 5:00 p.m. Monday through Friday. No grading work or soil hauling activities would occur on Saturdays, Sundays, or holidays.

Project construction would employ erosion control best management practices to prevent sedimentation from leaving the site and affecting off-site areas (see Figure 2-14 Erosion Control Plan). The project's erosion control plan incorporates the use of gravel bags, storm drain inlet protection materials, straw rolls, silt fencing, and the establishment of tree protection zones to protect exiting trees intended to remain onsite. The project erosion control plan includes two designated, rocked construction entrances and two concrete washout areas.

The proposed project would be subject to Chapter 8.05 of the City's Municipal Code, Recycling and Diversion of Construction and Demolition Debris, which provides requirements regarding the percentage of inert materials generated during demolitions activities that must be diverted from landfills.

2.4 CITY CONDITIONS OF APPROVAL

San Carlos utilizes Standard Conditions of Approval to address common construction and operation issues and ensure compliance with various requirements of regulatory agencies. Table 2-4 Applicable Standard Conditions of Approval lists Conditions of Approval required by the city as standard specifications applied to projects to minimize the potential adverse effects on the surrounding community and the environment. These conditions would be included in all 308 and 310 Phelps Road Residential Subdivision project construction documents and are considered part of the project and not mitigation measures.

Table 2-4 Applicable Standard Conditions of Approval, which include best management practices and the standard conditions, that would be applied to the project to help avoid or reduce potential impacts.

Table 2-4 Applicable Standard Conditions of Approval

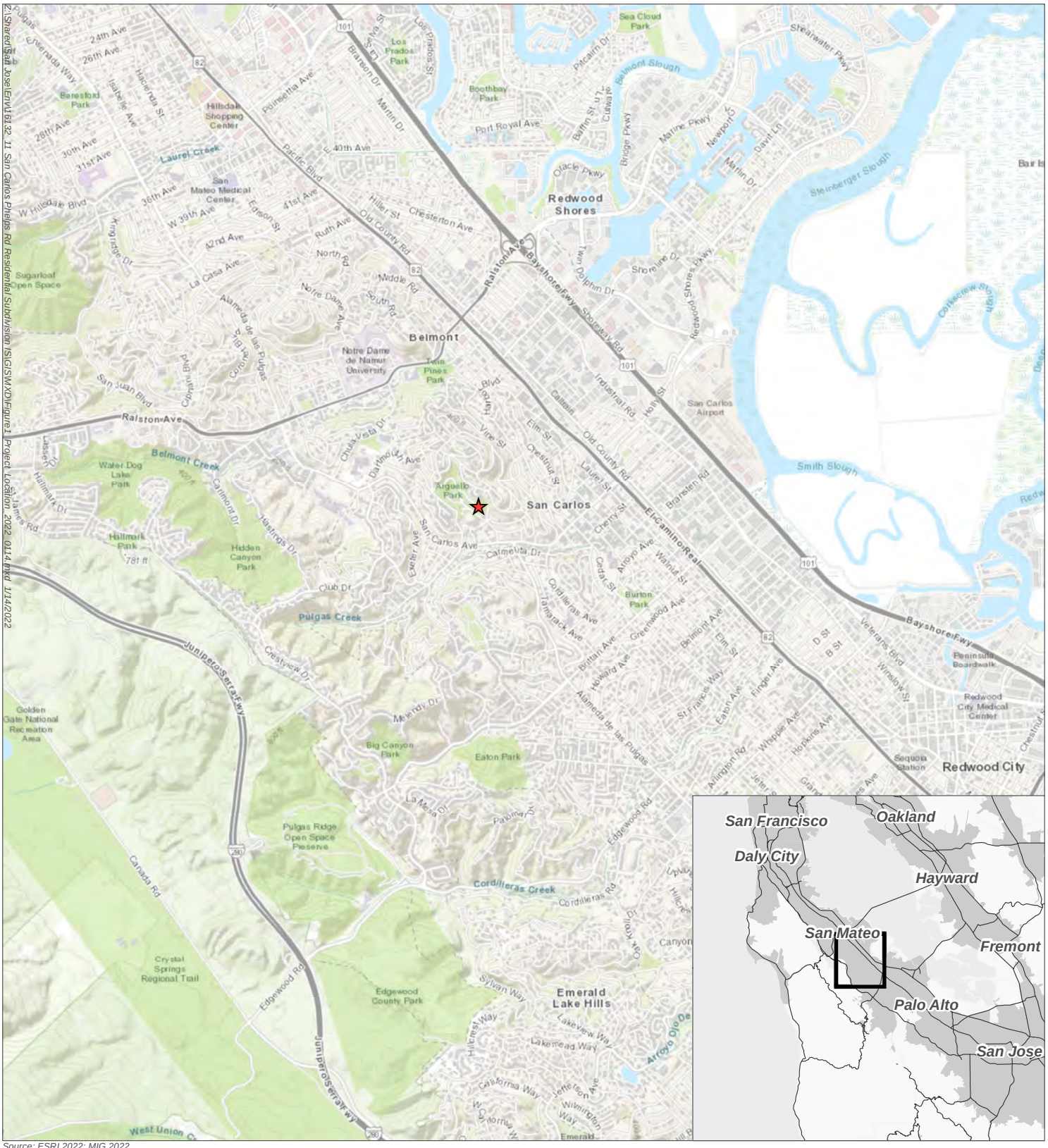
Resource Area/Topic	Condition of Approval
Aesthetics	**Exterior Materials.** The colors and materials of the structure and improvements shall be in substantial compliance with those presented and described within the application materials. Any changes determined to be significant as determined by the Community Development Director shall be reviewed and approved by the final approval body.
Aesthetics	**Exterior Lighting Plan.** A final exterior lighting plan with specifications in conformance with the approved plans is subject to review and approval by the Planning Division prior to Building Permit issuance.
Air Quality	**Dust Controls.** The project shall implement BAAQMD's Construction Fugitive Dust Best Management Practices and shall provide notes on the plans submitted to the Building Division for permits. 1) All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day. 2) All haul trucks transporting soil, sand, or other loose material off-site shall be covered. 3) All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited. 4) All vehicle speeds on unpaved roads shall be limited to 15 mph. 5) All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used. 6) Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as

Resource Area/Topic	Condition of Approval
	required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points. 7) All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specification. All equipment shall be checked by a certified visible emissions evaluator. Post a publicly visible sign with the telephone number and person to contact at the County Department of Public Works regarding dust complaints. The Department of Public Works or its contractor shall respond and take corrective action within 48 hours. The publicly visible sign shall also include the contact phone number for the Bay Area Air Quality Management District to ensure compliance with applicable regulations.
Biological Resources	**Protection of Trees.** The project proponent shall obtain a permit to remove any tree(s) protected under the City's Protected Tree Ordinance (SCMC Section 18.18.070, as determined by the City arborist, and shall also prepare a tree protection plan for all protected trees when their Tree Protection Zones (TPZs) interact with any proposed construction activity. The construction drawings and bid package shall include a TPZ boundary map and protection measures. Protected Trees removed will be replaced in accordance with the ordinance at the discretion of the City Arborist and the Community Development Director and per the preferred tree list. If any removed trees are within the jurisdiction of California Department of Fish and Wildlife (CDFW), and CDFW issues a Lake and Streambed Agreement for the project, the tree replacement ratios shall comply with CDFW requirements.
Hydrology/ Water Quality	**Stormwater Control Plan.** A stormwater and drainage control plan shall be prepared and implemented in compliance with the San Mateo Countywide Water Pollution Prevention Program (SMCWPPP), Provision C.3 of the County's Municipal Regional Stormwater NPDES Permit and any other required provisions of the City of Belmont Municipal Code. The plan shall specify best management practices for the control and prevention of stormwater pollution. The plan shall address both construction-phase and post-construction pollutant impacts from development. Construction-phase measures shall include: erosion control measures such as installing fiber rolls, silt fences, gravel bags, or other erosion control devices around and/or downslope of work areas and around storm drains prior to earthwork and before the onset of any anticipated storm events; monitoring and maintaining all erosion and sediment control devices; designating a location away from storm drains when refueling or maintaining equipment; scheduling grading and excavation during dry weather; and removing vegetation only when absolutely necessary. Post-construction drainage controls shall be specified to capture and treat stormwater onsite.
Noise	**Construction Noise.** Construction Activities shall comply with the City's noise ordinance. Chapter 9.30.070 Section B specifies that construction activities are exempt from noted regulations when limited to Monday through Friday between 8:00 AM and 5:00 PM, and Saturday between 9:00 AM and 5:00 PM. No construction noise-related activities are permitted on holidays listed in the Municipal Code. All gasoline-powered construction equipment shall be equipped with an operating muffler or baffling system as originally provided by the manufacturer, and no modification to the systems is permitted (the Building Official shall have the authority to grant exceptions to construction noise-related activities).

2.5 REQUIRED PERMITS AND APPROVALS

Development of the project would require the following approvals from the City of San Carlos:

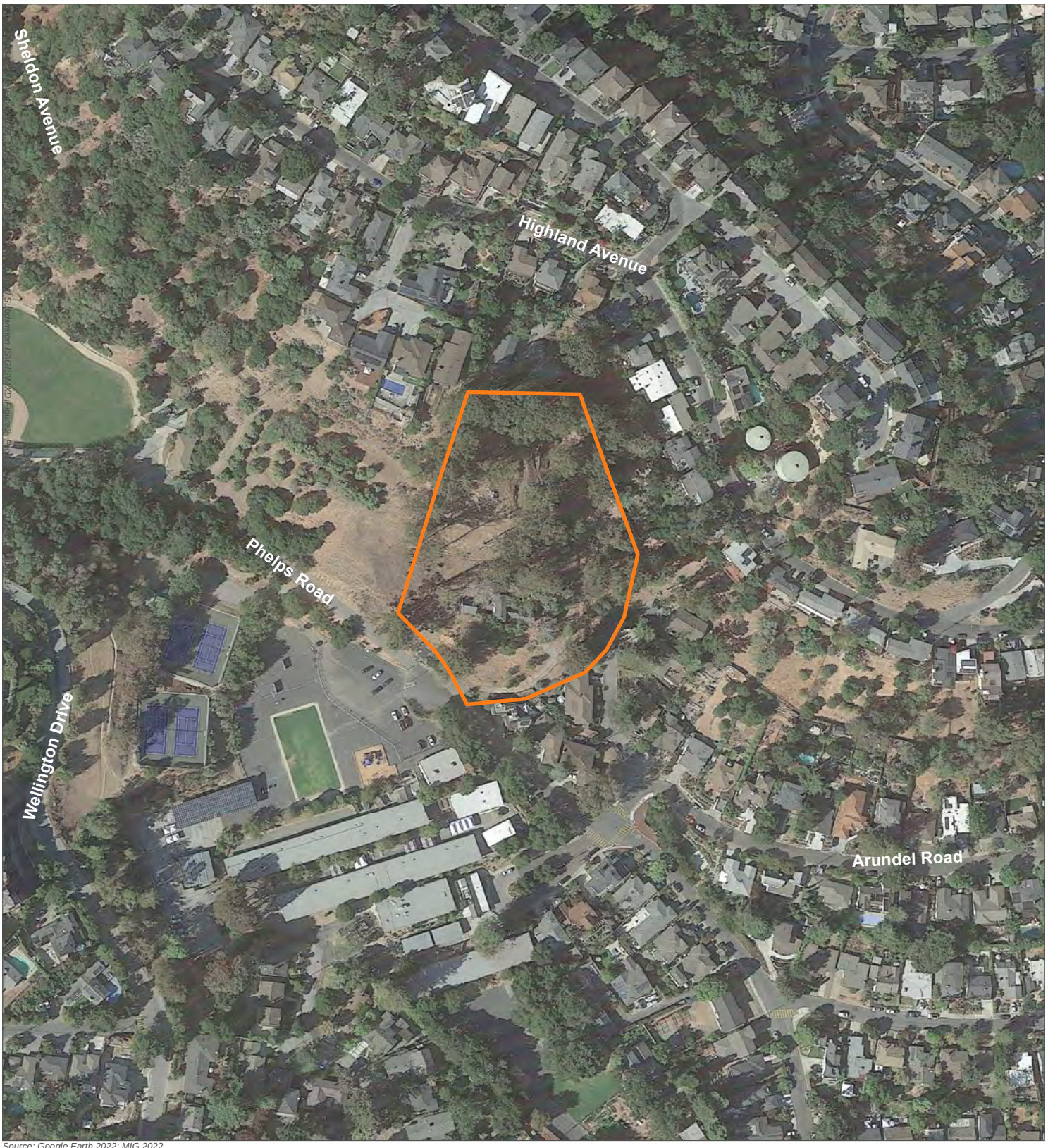
- General Plan Amendment to Single Family
- Rezoning project site to the RS-6 zoning district
- Tentative Map
- Conditional Use Permit for Small Lot Single Unit Development
- Design Review
- Below Market Rate Housing Plan
- Development Agreement
- Protected Tree Removal Permit
- Grading and Dirt Haul Certificate
- City Encroachment Permit
- Building Permit
- Construction Management Plan including construction traffic control



Source: ESRI 2022; MIG 2022

Figure 1 Regional Location

San Carlos Phelps Road Residential Subdivision



Source: Google Earth 2022; MIG 2022

0 100 200 400 Feet

Project Site

Figure 2 Project Vicinity

San Carlos Phelps Road Residential Subdivision

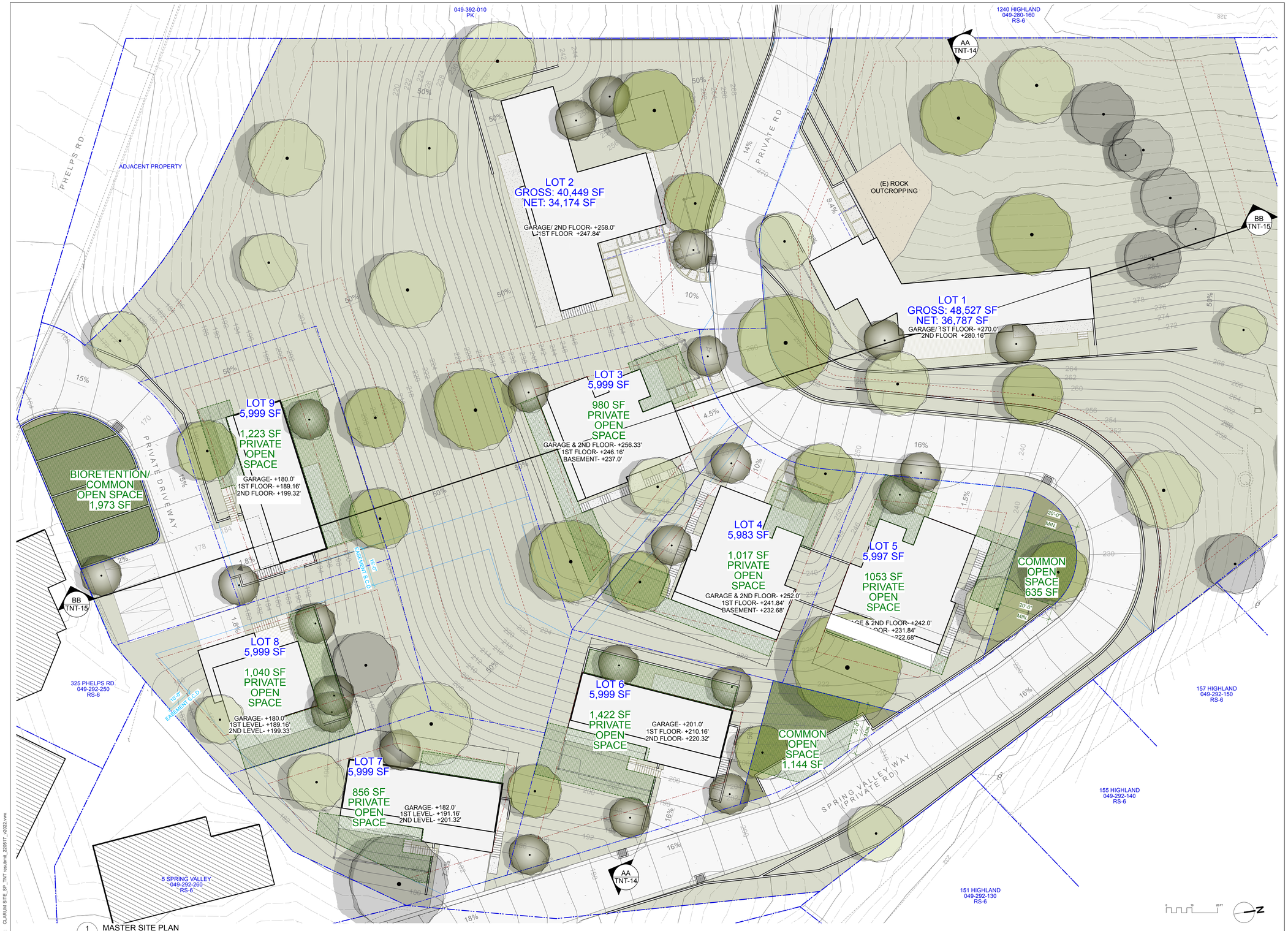
MIG

Photo 1. View of the site, including the existing driveway (photo right) from the Arundel Elementary School parking lot, looking east.

Photo 2. View of the site from the existing rock formation, looking southwest. The existing rock formation would be preserved.

Figure 3 Existing Site Photos

San Carlos Phelps Road Residential Subdivision



LUM

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LICENSED ARCHITECT
JOHN GIT HOONG LUM
NO. 21837
REN. 10.31.23
STATE OF CALIFORNIA

CLARUM HOMES SAN CARLOS

308 & 310 Phelps Rd.
San Carlos, CA 94070

client:

Phelps San Carlos LLC
P.O. Box 60970
Palo Alto, CA 94306

date	issues / revisions	by
11.20.2020	vested tentative map	ml
11.05.2021	vested tentative map rev. 1	ml
06.10.2022	vested tentative map rev. 2	ml
12.13.2022	vested tentative map rev. 3	ml

SITE PLAN

A0.01

filename: CLARUM SITE_SP_TNT resubmit_220517_v2022.vwx

Figure 2-4 Proposed Site Plan

Figure 2-5 Site Rendering - Lots 1, 2, & 3

SITE RENDER - LOT 1, 2 & 3 FROM LOT 4 ENTRY

filename: CLARUM SITE_SP_TNT resubmit_220517_v2022.vwx

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JOHN GIT HOONG LUM
No. 21837
REN. 10.31.23
STATE OF CALIFORNIA

CLARUM HOMES SAN CARLOS

308 & 310 Phelps Rd.
San Carlos, CA 94070

client:
Phelps San Carlos LLC
P.O. Box 60970
Palo Alto, CA 94306

date	issues / revisions	by
11.20.2020	vested tentative map	ml
11.05.2021	vested tentative map rev. 1	ml
06.10.2022	vested tentative map rev. 2	ml
12.13.2022	vested tentative map rev. 3	ml

SITE PERSPECTIVES

A0.04

Figure 2-6 Site Rendering Lots 8 & 9

SITE RENDER - LOT 8 & 9 FROM PHELPS ROAD ENTRANCE

filename: CLARUM SITE_SP_TNT resubmit_220517_v2022.vwx

JOHN LUM ARCHITECTURE
3246 SEVENTEENTH STREET SAN FRANCISCO, CA 94110
TEL 415.558.9550 FAX 415.558.0554

LICENSED ARCHITECT
JOHN GIT HOONG LUM
No. 21837
REN. 10.31.23
STATE OF CALIFORNIA

CLARUM HOMES SAN CARLOS

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11.20.2020	vested tentative map	ml
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06.10.2022	vested tentative map rev. 2	ml
12.13.2022	vested tentative map rev. 3	ml

SITE PERSPECTIVES

A0.05

1 / A1.05 SIDE EXTERIOR ELEVATION - LOT 1
Scale: 1/4" = 1'-0"

2 / A1.05 SIDE EXTERIOR ELEVATION - LOT 1
Scale: 1/4" = 1'-0"

filename: CLARUM LOT 1_SD_220610_v2022.vwx

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LICENSED ARCHITECT JOHN SIT HOONG LUM NO. 21837 10.31.22 STATE OF CALIFORNIA

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Palo Alto, CA 94306

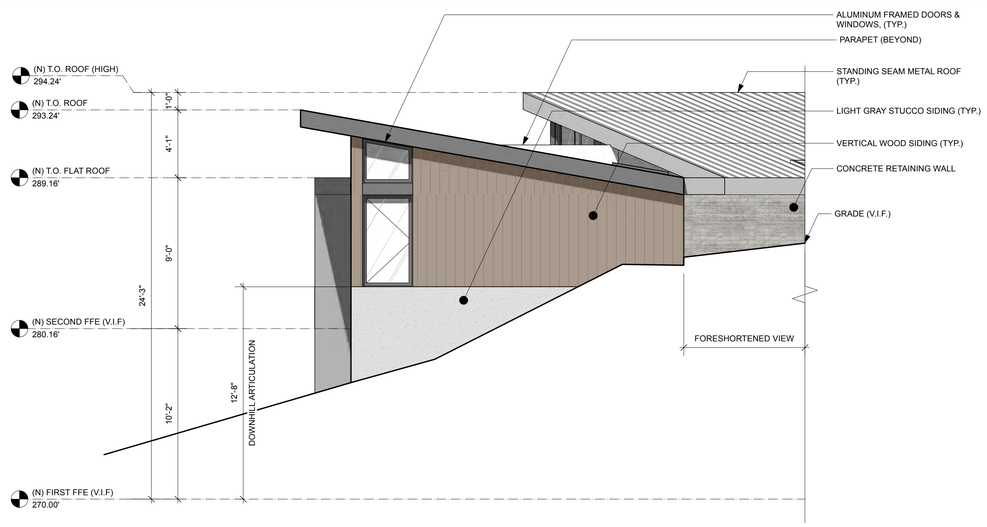
date	issues / revisions	by
11.20.2020	vested tentative map	ml
11.05.2021	vested tentative map resubmittal	ml
06.10.2022	vested tentative map rev. 2	ml
11.11.2022	CEQA Document Request	ml

LOT 1 - EXTERIOR ELEVATIONS

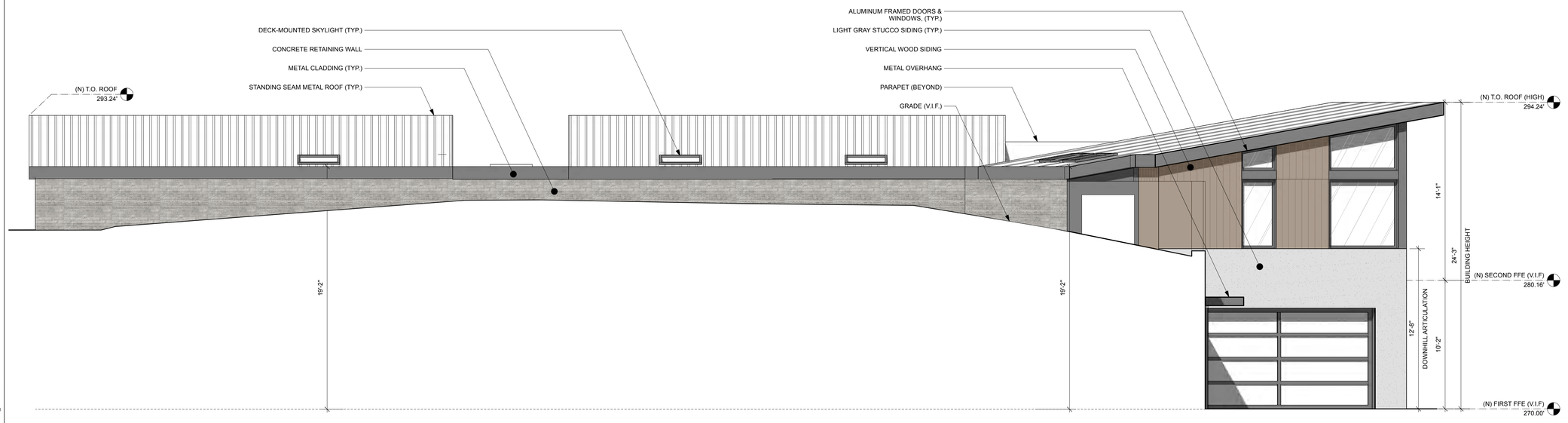
A1.05

Figure 2-7 Site Exterior Elevations (Lot 1)

1 A1.06 FRONT EXTERIOR ELEVATION - LOT 1
Scale: 1/4" = 1'-0"



2 A1.06 REAR EXTERIOR ELEVATION - LOT 1
Scale: 1/4" = 1'-0"



3 A1.06 SIDE EXTERIOR ELEVATION - LOT 1
Scale: 1/4" = 1'-0"

filename: CLARUM LOT 1_SD_220610_v2022.vwx

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TEL 415.558.9550 FAX 415.558.0554

LICENSED ARCHITECT
JOHN GIT HOONG LUM
No. 21837
REN. 10.31.2023
STATE OF CALIFORNIA

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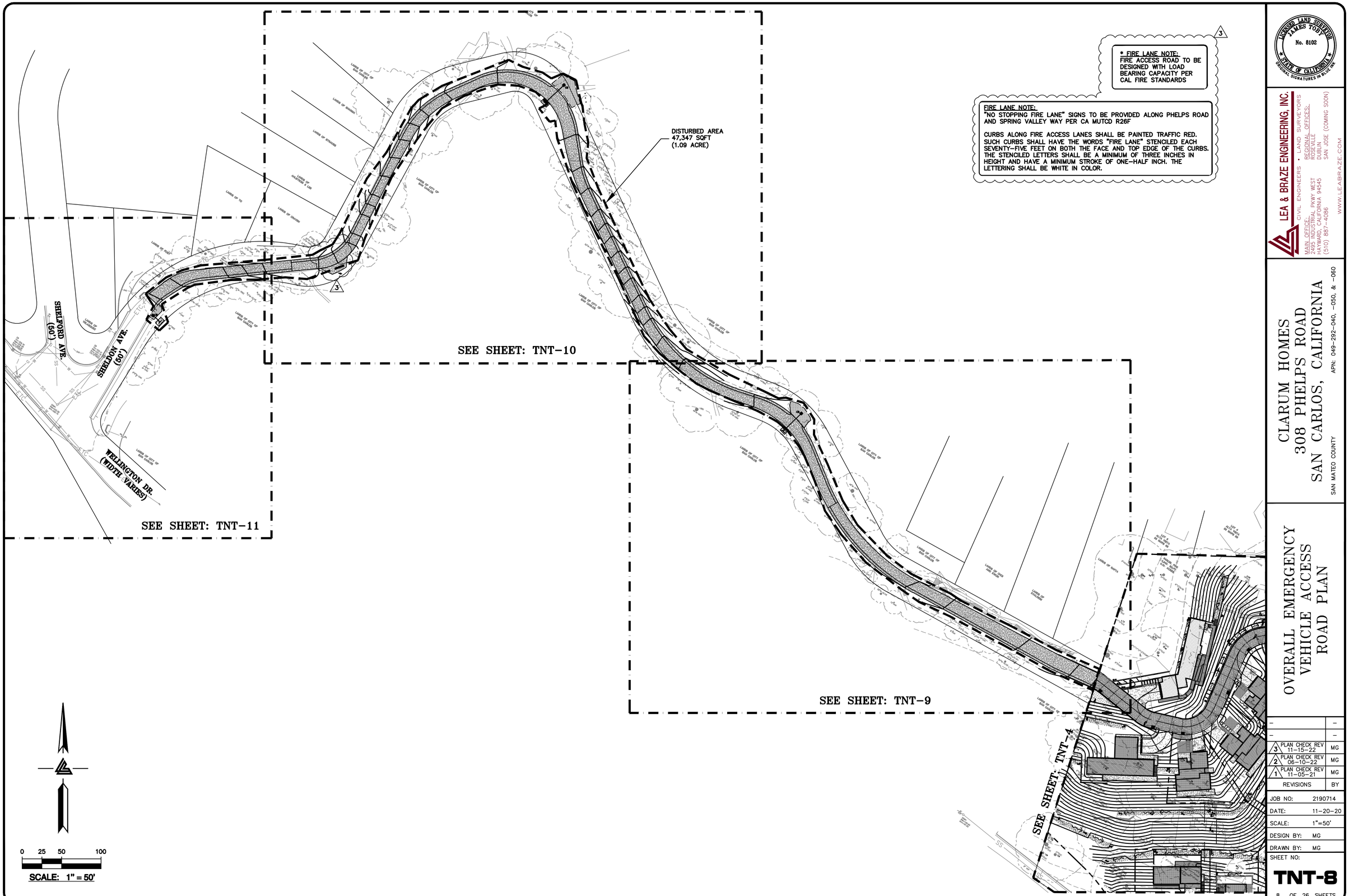
Palo Alto, CA 94306

date	issues / revisions	by
11.20.2020	vested tentative map	ml
11.05.2021	vested tentative map resubmittal	ml
06.10.2022	vested tentative map rev. 2	ml
11.11.2022	CEQA Document Request	ml

LOT 1 - EXTERIOR ELEVATIONS

A1.06

Figure 2-8 Front and Rear Exterior Elevations (Lot 1)



LICENSED LAND SURVEYOR
JAMES TOBY
No. 8102
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
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HAYWARD, CALIFORNIA 94545
(510) 887-4086
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CLARUM HOMES
308 PHELPS ROAD
SAN CARLOS, CALIFORNIA
SAN MATEO COUNTY
APN: 049-292-040, -050, & -060

OVERALL EMERGENCY VEHICLE ACCESS ROAD PLAN

–		–
–		–
3	PLAN CHECK REV 11-15-22	MG
2	PLAN CHECK REV 06-10-22	MG
1	PLAN CHECK REV 11-05-21	MG
	REVISIONS	BY

JOB NO:	2190714
DATE:	11-20-20
SCALE:	1"=50'
DESIGN BY:	MG
DRAWN BY:	MG
SHEET NO:	TNT-8

8 OF 26 SHEETS

Figure 2-9 Emergency Access Road Plan

GRASSLAND
-NATIVE GRASSES & WILDFLOWERS

REVEGETATION AREAS
-NATIVE GRASSES & WILDFLOWERS
-SMALL SEEDLING NATIVE TREES & SHRUBS

TRANSITION LANDSCAPE
-DROUGHT TOLERANT
-FLOWERING NATIVES

PRIVATE LANDSCAPE
-LOW-USE WATER

BIORENTION PLANTING
-PER COUNTY C.3 TECHNICAL GUIDANCE

ACCENT TREES
-DROUGHT TOLERANT

OAK WOODLAND
NATIVE UNDERSTORY PLANTING

NATIVE OAKS
-REPLACEMENT TREES
-48", 36" & 24" BOXED TREES

EXISTING TREES TO REMAIN

ZAL
Landscape Architects, Inc.
Mark West Station Road
Petaluma, California 94952
(707) 696-2967
sr@zallandscape.com

REGISTERED LANDSCAPE ARCHITECT
SANDRA REED
NO. 2923
EX. DATE 9-30-2023
DATE:
STATE OF CALIFORNIA

CLIENT

PHELPS SAN CARLOS LLC
P.O. BOX 60970
PALO ALTO, CA 97306

CLARUM HOMES SAN CARLOS
308 & 310 Phelps Road
San Carlos, CA 94070

DATE:	ISSUE/REVISION
11-23-2020	TNT SUBMITTAL
05-21-2021	TNT RE-SUBMITTAL
06-10-2022	TNT RE-SUBMITTAL
12-08-2022	TNT RE-SUBMITTAL

LANDSCAPE PLAN

L1.0

Figure 2-10 Landscaping Plan

PROPOSED CATCH BASIN –TYP.

PROPOSED 6 FT TERRACE WITH VEGETATED DRAINAGE SWALE –TYP.

PROPOSED STORM DRAIN LINE –TYP.

PROPOSED 6 FT TERRACE WITH VEGETATED DRAINAGE SWALE –TYP.

PROPOSED TRENCH DRAIN TO DAYLIGHT INTO BIORETENTION TREATMENT AREA

DISTURBED AREA 119,825 SQFT (2.75 ACRE)

EXISTING HYDRANT TO REMAIN

PROPOSED METERED RELEASE OUTLET

PROPOSED RIP RAP DISSIPATOR –TYP.

PROPOSED 1,600 SQFT BIORETENTION TREATMENT AREA (SEE SCP–1)

PROPOSED CATCH BASIN –TYP.

PROPOSED SANITARY SEWER MANHOLE –TYP.

PROPOSED SS LATERAL –TYP.

PROPOSED STORM DRAIN EASEMENT (SEE TNT–3)

PROPOSED STORM DRAIN MANHOLE –TYP.

PROPOSED 12" STORM DRAIN LINE

PROPOSED WATER METER –TYP.

UPSIZE (E) 6" PVC WATER MAIN TO 10" WATER MAIN

EXISTING HYDRANT TO REMAIN

CONNECT NEW UNDERGROUND JOINT TRENCHING TO TO PROPOSED UTILITY BOX

PROPOSED 6 FT TERRACE WITH VEGETATED DRAINAGE SWALE –TYP.

PROPOSED STORM DRAIN LINE –TYP.

PROPOSED SS LATERAL –TYP.

PROPOSED STORM DRAIN LINE –TYP.

PROPOSED 8" SANITARY SEWER LINE –TYP.

PROPOSED 12" STORM DRAIN LINE

PROPOSED SS LATERAL –TYP.

PROPOSED STORM DRAIN MANHOLE –TYP.

PROPOSED 15 FT STORM DRAIN AND SANITARY SEWER EASEMENT (SEE TNT–3)

PROPOSED HYDRANT –TYP.

PROPOSED STORM DRAIN MANHOLE –TYP.

PROPOSED 12" STORM DRAIN LINE

PROPOSED WATER METER –TYP.

PROPOSED 10 FT STORM DRAIN EASEMENT

PROPOSED STREET INLET –TYP.

PROPOSED SANITARY SEWER LATERAL –TYP.

INGRESS, EGRESS, ROAD AND PUBLIC UTILITY EASEMENT (7242 O.R. 326) TO BE ABANDONED AND REPLACED

10.0' SANITARY SEWER EASEMENT (2243 O.R. 590) TO REMAIN

PROPOSED STREET INLET –TYP.

SEE SHEET TNT–8 FOR ACCESS ROAD

PROPOSED 1,600 SQFT BIORETENTION TREATMENT AREA (SEE SCP–1)

PROPOSED DRIVEWAY TRENCH DRAIN –TYP.

PROPOSED WATER METER –TYP.

PROPOSED J DITCH

PROPOSED JOINT TRENCH SERVICE –TYP.

PROPOSED FIRE HYDRANT –TYP.

PROPOSED CATCH BASIN –TYP.

PROPOSED STREET INLET –TYP.

PROPOSED SANITARY SEWER LATERAL –TYP.

PROPOSED SANITARY SEWER MANHOLE –TYP.

PROPOSED JOINT TRENCH SERVICE –TYP.

PROPOSED DRIVEWAY TRENCH DRAIN –TYP.

PROPOSED HYDRANT –TYP.

PROPOSED STORM DRAIN MANHOLE –TYP.

PROPOSED SANITARY SEWER MANHOLE –TYP.

PROPOSED 8" SANITARY SEWER MAIN –TYP.

PROPOSED 12" STORM DRAIN MAIN –TYP.

PROPOSED 10" WATER MAIN –TYP.

(E) SANITARY SEWER LINE AND EASEMENT TO REMAIN

LOT 1
1ST LEVEL FF: 270.00
2ND LEVEL FF: 280.00

LOT 2
MAIN LEVEL FF: 258.00
LOWER LEVEL FF: 247.84
GARAGE LEVEL FF: 258.00

LOT 3
GARAGE LEVEL: 256.33
MAIN LEVEL: 246.16
BASEMENT LEVEL: 237.00

LOT 4
GARAGE LEVEL: 252.00
LOWER LEVEL FF: 241.84
BASEMENT LEVEL FF: 232.68

LOT 5
GARAGE LEVEL: 242.00
LOWER LEVEL FF: 231.84
BASEMENT LEVEL FF: 222.68

LOT 6
GARAGE LEVEL: 201.00
MAIN LEVEL FF: 210.16
UPPER LEVEL FF: 220.32

LOT 7
GARAGE LEVEL: 182.00
MAIN LEVEL FF: 191.16
UPPER LEVEL FF: 201.32

LOT 8
GARAGE LEVEL: 180.00
MAIN LEVEL FF: 189.16
UPPER LEVEL FF: 199.32

LOT 9
GARAGE LEVEL: 180.00
2ND LEVEL FF: 189.16
3RD LEVEL FF: 199.32

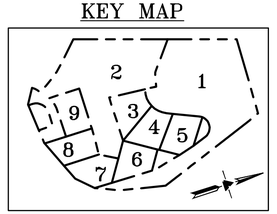
PHELPS ROAD (PUBLIC ROAD 40')

SPRING VALLEY WAY (PUBLIC ROAD 40')

0 10 20 40

SCALE: 1" = 20'

KEY MAP



* EASEMENT NOTE:
ALL ON–SITE SANITARY SEWER LATERALS TO BE PRIVATELY OWNED AND MAINTAINED

MICHAEL LAND SURVEYOR
JAMES TOBY
No. 8102
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

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(510) 887–4086
REGIONAL OFFICES:
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DUBLIN
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WWW.LEABRAZE.COM

CLARUM HOMES
308 PHELPS ROAD
SAN CARLOS, CALIFORNIA
SAN MATEO COUNTY
APN: 049–292–040, –050, & –060

UTILITY PLAN

–		–
–		–
3	PLAN CHECK REV 11–15–22	MG
2	PLAN CHECK REV 06–10–22	MG
1	PLAN CHECK REV 11–05–21	MG
	REVISIONS	BY

JOB NO:	2190714
DATE:	11–20–20
SCALE:	1"=20'
DESIGN BY:	MG
DRAWN BY:	MG
SHEET NO:	

TNT–5

05 OF 26 SHEETS

Figure 2-11 Utility Plan

DRAINAGE MANAGEMENT AREA (DMA) AND TREATMENT CONTROL MEASURE (TCM) SUMMARY TABLE

DMA	ROUTED TO TCM OR BYPASS	TREATMENT SIZING / DESIGN METHOD	DRAINAGE AREA (SQFT.)	IMPERVIOUS AREA (SQFT.)	IMPERVIOUS AREA (ACRES)	PERVIOUS AREA (SQFT).	PERVIOUS AREA (ACRES)	% OF SITE IMPERVIOUS TREATED
1	TCM	BAHM & HYDROCAD	112,801	39,748	0.912	73,053	1.677	93%
2	BYPASS	N/A	15,864	189	0.004	15,675	0.360	N/A
3	BYPASS	N/A	3,661	0	0.000	3,661	0.084	N/A
4	TCM	BAHM & HYDROCAD	2,118	2,118	0.049	0	0.000	5%
5	BYPASS	N/A	539	539	0.012	0	0.000	N/A
6	BYPASS	N/A	568	0	0.000	568	0.013	N/A

IMPERVIOUS SURFACE INFORMATION - ONSITE

TOTAL SITE AREA = 135,551 SQUARE FEET = 3.112 ACRES

DISTURBED AREA = 105,000 SQUARE FEET = 2.41 ACRES

IMPERVIOUS AREAS	EXISTING (sq-ft.)	REMOVED (sq-ft.)	NEW (sq-ft.)	PROPOSED (sq-ft.)
ROOF AREA	3,843	3,843	16,024	16,024
HARDSCAPE IMPROVEMENTS (PATIOS, WALKWAYS, AND PADS)	1,250	1,250	5,535	5,535
DRIVEWAY ACCESS	12,160	12,160	4,181	4,181
CONCRETE ROADWAY AND PARKING	0	0	16,753	16,753
PUBLIC STREET (PHELPS ROAD)	101	0	0	101
TOTAL IMPERVIOUS AREA	**17,354**	**17,253**	**42,493**	**42,594**
NET CHANGE IN IMPERVIOUS AREA	**+25,240 SQFT. NET INCREASE**			

NOTE: NATURAL STATE ASSUMED TO BE UNDEVELOPED LOT AREAS INCLUDING SITE REGRADING

Developed Area per Lot

Lot	Total Developed Area (sq.ft)	Total Lot Area (sq.ft)	Percent Natural State
1	3,574	48,699	93%
2	4,346	40,448	89%
3	2,815	5,997	53%
4	2,879	5,982	52%
5	2,842	5,998	53%
6	2,502	5,999	58%
7	2,396	5,998	60%
8	1,790	6,000	70%
9	2,229	5,999	63%

DMA #1
39,748 SQFT. IMPERVIOUS
73,053 SQFT. PERVIOUS

DMA #2
15,675 SQFT. PERVIOUS
189 SQFT. IMPERVIOUS

DMA #3
3,661 SQFT. PERVIOUS

DMA #4
2,118 SQFT. IMPERVIOUS

DMA #5
539 SQFT. IMPERVIOUS

TREATMENT CONTROL MEASURE
1,830 SQFT BIORETENTION AREA W/ 9-INCH PONDING DEPTH

PHELPS ROAD (PUBLIC ROAD 40')

SPRING VALLEY WAY (PUBLIC ROAD 40')

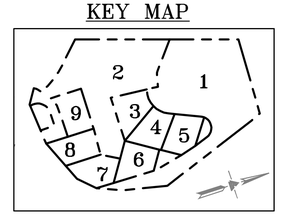
INGRESS, EGRESS, ROAD AND PUBLIC UTILITY EASEMENT (7242 O.R. 326) TO BE ABANDONED AND REPLACED

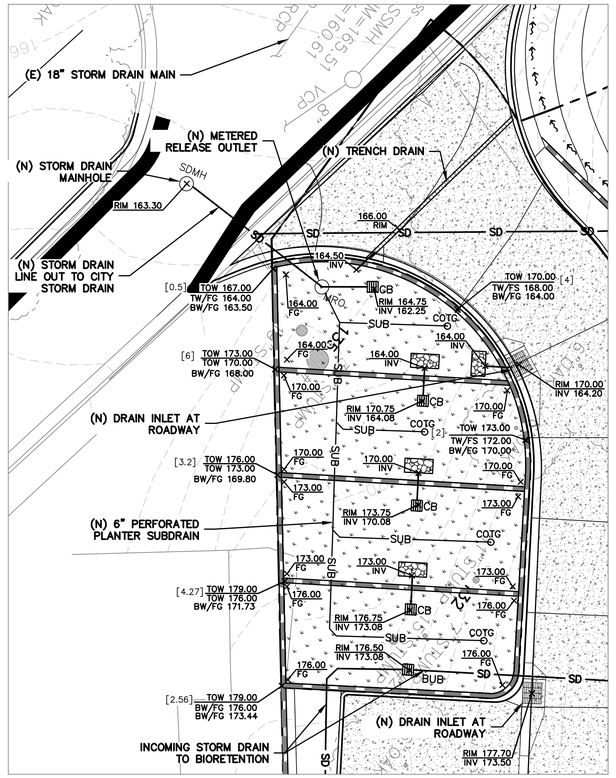
10.0' SANITARY SEWER EASEMENT (2243 O.R. 590) TO REMAIN

DMA #6
568 SQFT. PERVIOUS

0 15 30 60
SCALE: 1" = 30'

KEY MAP





LICENSED LAND SURVEYOR JAMES TOBY No. 8102 STATE OF CALIFORNIA ORIGINAL SIGNATURES IN BLUE INK

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
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WWW.LEABRAZE.COM

CLARUM HOMES
308 PHELPS ROAD
SAN CARLOS, CALIFORNIA
SAN MATEO COUNTY APN: 049-292-040, -050, & -060

STORMWATER CONTROL PLAN

–		–
–		–
3	PLAN CHECK REV 11-15-22	MG
2	PLAN CHECK REV 06-10-22	MG
1	PLAN CHECK REV 11-05-21	MG
	REVISIONS	BY

JOB NO:	2190714
DATE:	11-20-20
SCALE:	1" = 30'
DESIGN BY:	MG
DRAWN BY:	MG
SHEET NO:	SCP-1

21 OF 26 SHEETS

Figure 2-12 Stormwater Control Plan

LICENSED LAND SURVEYOR
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STATE OF CALIFORNIA
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(510) 887-4086
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WWW.LEABRAZE.COM

CLARUM HOMES
308 PHELPS ROAD
SAN CARLOS, CALIFORNIA

SAN MATEO COUNTY APN: 049-292-040, -050, & -060

GRADING AND DRAINAGE PLAN

SEE SHEET TNT-8 FOR ACCESS ROAD

PROPOSED BIORETENTION TREATMENT AREAS

PROPOSED 6 FT TERRACE WITH VEGETATED DRAINAGE SWALE –TYP.

PROPOSED CONCRETE J DRAINAGE DITCH

(E) ROCK OUTCROPPING

PROPOSED REAR PATIO –TYP.

REMOVE AND REPLACE EXISTING CURB AND GUTTER

PROPOSED 6" VERTICAL CURB AND GUTTER –TYP.

PROPOSED BIORETENTION TREATMENT AREAS (SEE SCP–1)

PROPOSED PARKING STALLS: 9 FT X 19 FT

PROPOSED GUTTER –TYP.

PROPOSED 10 FT STORM DRAIN EASEMENT

PROPOSED 15 FT STORM DRAIN AND SANITARY SEWER EASEMENT

PROPOSED 6 FT TERRACE WITH VEGETATED DRAINAGE SWALE –TYP.

PROPOSED PARALLEL PARKING [2] STALLS 20 FT X 8.5 FT

PROPOSED 6" VERTICAL CURB AND GUTTER –TYP.

EXISTING DRIVEWAY TO BE REGRADED AND REPAVED (7242 O.R. 326)

10.0' SANITARY SEWER EASEMENT (2243 O.R. 590) TO REMAIN

EXISTING DRIVEWAY TO BE REGRADED AND REPAVED

LOT 1
1ST LEVEL FF: 270.00
2ND LEVEL FF: 280.00
(N) DECK ABOVE

LOT 2
MAIN LEVEL FF: 258.00
LOWER LEVEL FF: 247.84
GARAGE LEVEL FF: 258.00

LOT 3
GARAGE LEVEL: 256.33
MAIN LEVEL: 246.16
BASEMENT LEVEL: 237.00

LOT 4
GARAGE LEVEL: 252.00
LOWER LEVEL FF: 241.84
BASEMENT LEVEL FF: 232.68

LOT 5
GARAGE LEVEL: 242.00
LOWER LEVEL FF: 231.84
BASEMENT LEVEL FF: 222.68

LOT 6
GARAGE LEVEL: 201.00
MAIN LEVEL FF: 210.16
UPPER LEVEL FF: 220.32

LOT 7
GARAGE LEVEL: 182.00
MAIN LEVEL FF: 191.16
UPPER LEVEL FF: 201.32

LOT 8
GARAGE LEVEL: 180.00
MAIN LEVEL FF: 189.16
UPPER LEVEL FF: 199.32

LOT 9
GARAGE LEVEL: 180.00
2ND LEVEL FF: 189.16
3RD LEVEL FF: 199.32

PHELPS ROAD (PUBLIC ROAD 40')

SPRING VALLEY WAY (PUBLIC ROAD 40')

SCALE: 1" = 20'

* FIRE LANE NOTE:
FIRE ACCESS ROAD TO BE DESIGNED WITH LOAD BEARING CAPACITY PER CAL FIRE STANDARDS

FIRE LANE NOTE:
"NO STOPPING FIRE LANE" SIGNS TO BE PROVIDED ALONG PHELPS ROAD AND SPRING VALLEY WAY PER CA MUTCD R26F

CURBS ALONG FIRE ACCESS LANES SHALL BE PAINTED TRAFFIC RED. SUCH CURBS SHALL HAVE THE WORDS "FIRE LANE" STENCILED EACH SEVENTY–FIVE FEET ON BOTH THE FACE AND TOP EDGE OF THE CURBS. THE STENCILED LETTERS SHALL BE A MINIMUM OF THREE INCHES IN HEIGHT AND HAVE A MINIMUM STROKE OF ONE–HALF INCH. THE LETTERING SHALL BE WHITE IN COLOR.

KEY MAP

–		–
–		–
3	PLAN CHECK REV 11–15–22	MG
2	PLAN CHECK REV 08–10–22	MG
1	PLAN CHECK REV 11–05–21	MG
	REVISIONS	BY

JOB NO:	2190714
DATE:	11–20–20
SCALE:	1"=20'
DESIGN BY:	MG
DRAWN BY:	MG
SHEET NO:	TNT–4

04 OF 26 SHEETS

Figure 2-13 Grading and Drainage Plan

PURPOSE:

THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS PLAN SHOULD BE CONSIDERED THE MINIMUM REQUIREMENTS NECESSARY. SHOULD FIELD CONDITIONS DICTATE ADDITIONAL MEASURES, SUCH MEASURES SHALL BE PER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL AND THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION. LEA & BRAZE ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY SHOULD CONDITIONS CHANGE.

EROSION CONTROL NOTES:

1. THE INTENTION OF THIS PLAN IS FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. ALL EROSION CONTROL MEASURES SHALL CONFORM TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL, THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AND THE LOCAL GOVERNING AGENCY FOR THIS PROJECT.
2. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT–LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATERCOURSES.
3. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE MAINTAINED AT ALL TIMES.
4. CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
5. IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVAL EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM.
7. MEASURES SHALL BE TAKEN TO COLLECT OR CLEAN ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD, SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEMS. THE REMOVAL OF AFORESAID SHALL BE DONE BY STREET SWEEPING OR HAND SWEEPING. WATER SHALL NOT BE USED TO WASH SEDIMENTS INTO PUBLIC OR PRIVATE DRAINAGE FACILITIES.
11. THE CONTRACTOR MUST INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE INCEPTION OF ANY WORK ONSITE AND MAINTAIN THE MEASURES UNTIL THE COMPLETION OF ALL LANDSCAPING.
12. THE CONTRACTOR SHALL MAINTAIN ADJACENT STREETS IN A NEAT, CLEAN DUST FREE AND SANITARY CONDITION AT ALL TIMES AND TO THE SATISFACTION OF THE TOWN INSPECTOR. THE ADJACENT STREET SHALL AT ALL TIMES BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY THE BY THEIR CONSTRUCTION, METHOD OF STREET CLEANING SHALL BE BY DRY SWEEPING OF ALL PAVED AREAS. NO STOCKPILING OF BUILDING MATERIALS WITHIN THE TOWN RIGHT–OF–WAY.
13. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONTRACTOR SHALL INSTALL A STABILIZED CONSTRUCTION ENTRANCE PRIOR TO THE INSPECTION OF ANY WORK ONSITE AND MAINTAIN IT FOR THE DURATION OF THE CONSTRUCTION PROCESS SO AS TO NOT INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC RIGHT–OF–WAY UNTIL THE COMPLETION OF ALL LANDSCAPING.
14. THE CONTRACTOR SHALL PROTECT DOWN SLOPE DRAINAGE COURSES, STREAMS AND STORM DRAINS WITH ROCK FILLED SAND BAGS, TEMPORARY SWALES, SILT FENCES, AND EARTH PERMS IN CONJUNCTION OF ALL LANDSCAPING.
15. STOCKPILED MATERIALS SHALL BE COVERED WITH VISQUEEN OR A TARPAULIN UNTIL THE MATERIAL IS REMOVED FROM THE SITE. ANY REMAINING BARE SOIL THAT EXISTS AFTER THE STOCKPILE HAS BEEN REMOVED SHALL BE COVERED UNTIL A NATURAL GROUND COVER IS ESTABLISHED OR IT IS SEEDED OR PLANTED TO PROVIDE GROUND COVER PRIOR TO THE FALL RAINY SEASON.
16. EXCESS OR WASTE CONCRETE MUST NOT BE WASHED INTO THE PUBLIC RIGHT–OF–WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
17. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MUST NOT BE WASHED INTO THE DRAINAGE SYSTEM,
18. SILT FENCE(S) AND/OR FIBER ROLL(S) SHALL BE INSTALLED PRIOR TO SEPTEMBER 15TH AND SHALL REMAIN IN PLACE UNTIL THE LANDSCAPING GROUND COVER IS INSTALLED. CONTRACTOR SHALL CONTINUOUSLY MONITOR THESE MEASURES, FOLLOWING AND DURING ALL RAIN EVENTS,TO PUBLIC OWNED FACILITIES.

REFERENCES:

1. CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL
2. CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION

NOTE:
SEAL ALL OTHER INLETS NOT INTENDED TO ACCEPT STORM WATER AND DIRECT FLOWS TEMPORARILY TO FUNCTIONAL SEDIMENTATION BASIN INLETS. –TYP

SWPPP NOTE:
PROJECT IS OVER ONE ACRE IN SIZE AND WILL BE SUBJECT TO THE STATE OF CALIFORNIA DEPARTMENT OF WATER RESOURCES STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

EROSION CONTROL MEASURES:

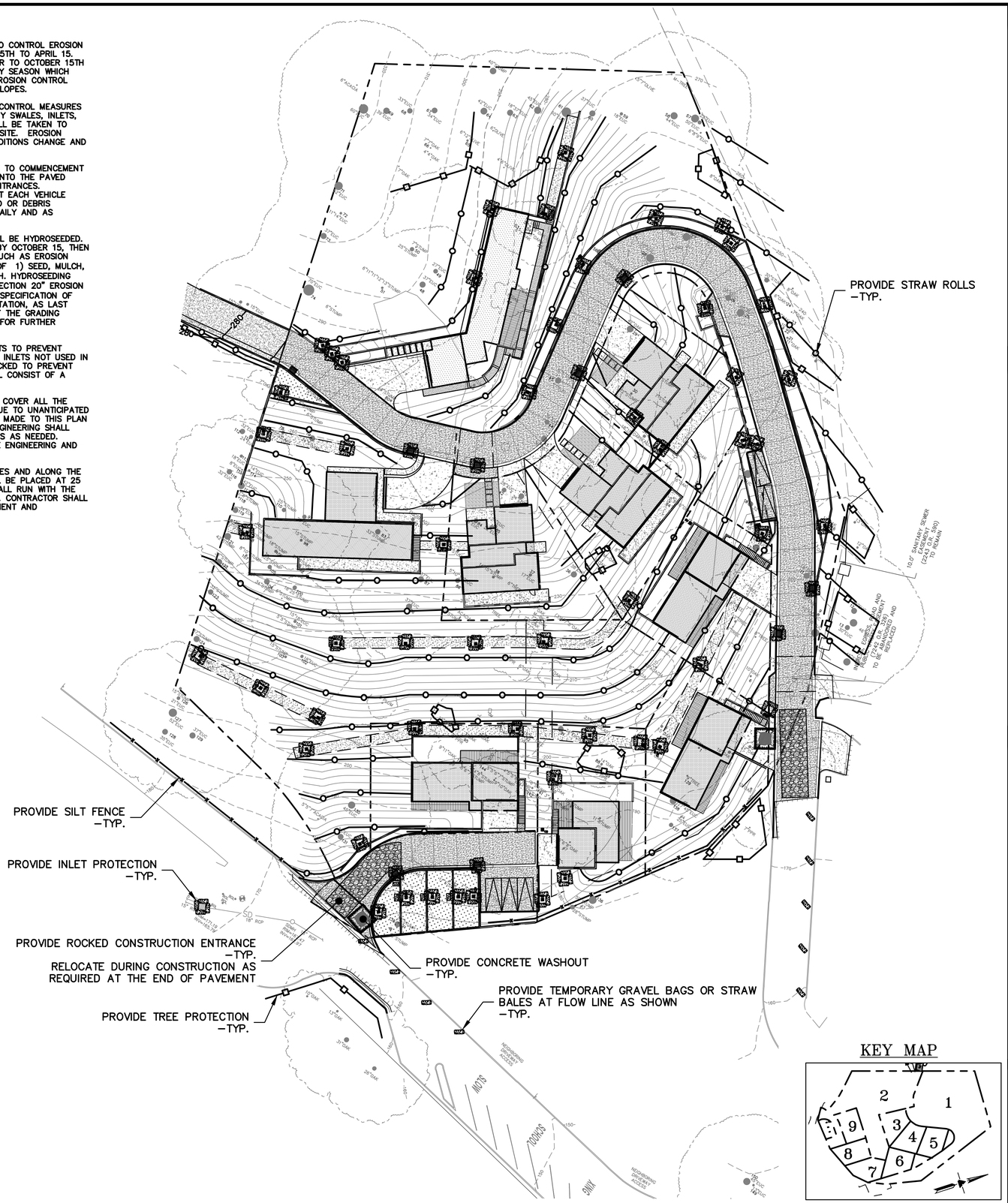
1. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15TH TO APRIL 15. EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO OCTOBER 15TH OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
2. SITE CONDITIONS AT TIME OF PLACEMENT OF EROSION CONTROL MEASURES WILL VARY. APPROPRIATE ACTION INCLUDING TEMPORARY SWALES, INLETS, HYDROSEEDING, STRAW BALES, ROCK SACKS, ETC. SHALL BE TAKEN TO PREVENT EROSION AND SEDIMENTATION FROM LEAVING SITE. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS THE CONDITIONS CHANGE AND THE NEED OF CONSTRUCTION SHIFT.
3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE GOVERNING AGENCY.
4. ALL EXPOSED SLOPES THAT ARE NOT VEGETATED SHALL BE HYDROSEEDED. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY OCTOBER 15, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE–STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. HYDROSEEDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 20" EROSION CONTROL AND HIGHWAY PLANTING" OF THE STANDARD SPECIFICATION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED. REFER TO THE EROSION CONTROL SECTION OF THE GRADING SPECIFICATIONS THAT ARE A PART OF THIS PLAN SET FOR FURTHER INFORMATION.
5. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT. MINIMUM INLET PROTECTION SHALL CONSIST OF A ROCK SACKS OR AS SHOWN ON THIS PLAN
6. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. A REPRESENTATIVE OF LEA & BRAZE ENGINEERING SHALL PERFORM A FIELD REVIEW AND MAKE RECOMMENDATIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE TO NOTIFY LEA & BRAZE ENGINEERING AND THE GOVERNING AGENCY OF ANY CHANGES.
7. STRAW ROLLS SHALL BE PLACED AT THE TOE OF SLOPES AND ALONG THE DOWN SLOPE PERIMETER OF THE PROJECT. THEY SHALL BE PLACED AT 25 FOOT INTERVALS ON GRADED SLOPES. PLACEMENT SHALL RUN WITH THE CONTOURS AND ROLLS SHALL BE TIGHTLY END BUTTED. CONTRACTOR SHALL REFER TO MANUFACTURES SPECIFICATIONS FOR PLACEMENT AND INSTALLATION INSTRUCTIONS.

0 15 30 60

SCALE: 1" = 30'

EROSION CONTROL LEGEND

- GRAVEL BAG
- INLET PROTECTION
- STRAW ROLL
- SILT FENCE
- CONCRETE WASHOUT
- CONSTRUCTION ENTRANCE
- TREE PROTECTION



KEY MAP

LICENSED LAND SURVEYOR JAMES TOBY No. 8102 STATE OF CALIFORNIA ORIGINAL SIGNATURES IN BLUE INK

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
REGIONAL OFFICES:
MAIN OFFICE: 2495 INDUSTRIAL PKWY WEST HAYWARD, CALIFORNIA 94545 (510) 887–4086
ROSEVILLE
DUBLIN
SAN JOSE (COMING SOON)
WWW.LEABRAZE.COM

CLARUM HOMES
308 PHELPS ROAD
SAN CARLOS, CALIFORNIA
SAN MATEO COUNTY
APN: 049–292–040, –050, & –060

EROSION CONTROL PLAN

–		–
–		–
3	PLAN CHECK REV 11–15–22	MG
2	PLAN CHECK REV 06–10–22	MG
1	PLAN CHECK REV 11–05–21	MG
	REVISIONS	BY

JOB NO:	2190714
DATE:	11–20–20
SCALE:	1"=30'
DESIGN BY:	MG
DRAWN BY:	MG
SHEET NO:	ER–1

23 OF 26 SHEETS

Figure 2-14 Erosion Control Plan

Chapter 3. Environmental Analysis and Findings

1. **Project Title:** 308 and 310 Phelps Road Residential Subdivision Project
2. **Lead Agency Name and Address:** City of San Carlos; 600 Elm Street, San Carlos, CA 94070
3. **Contact Person and Phone Number:** Rucha Dande, Senior Planner (650) 802-4231
4. **Project Location:** 308 and 310 Phelps Road, San Carlos, CA
5. **Project Sponsor's Name and Address:** John Suppes, Clarum Homes. 412 Olive Avenue, Palo Alto, CA 94306
6. **General Plan Designation:** Open Space (OS)
7. **Zoning:** Single Family, Low Density Residential (RS-3)
8. **Description of the Project:** The proposed project consists of developing a nine-lot residential subdivision on an approximately 3.12-acre site which were developed with two single-family residences. Project activities include substantially grading the site, constructing nine single-family residences, trenching and installing utilities infrastructure, and landscaping.
9. **Surrounding Land Uses and Setting:** Adjacent land uses consist of single-family residential to the north, east, and south; park land uses to the west; and open space and school land uses to the west and south.
10. **Other Public Agencies Whose Approval is Required:** The project would not require permits from any other public agencies.
11. **Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?** The City of San Carlos has not received any requests from a Native American tribe traditionally and culturally affiliated with the project area. Therefore, no consultation has been conducted.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist on the following pages.

☐	Aesthetics	☐	Greenhouse Gas Emissions	☐	Public Services
☐	Agricultural and Forestry Resources	☐	Hazards and Hazardous Materials	☐	Recreation
☒	Air Quality	☐	Hydrology/Water Quality	☒	Transportation
☒	Biological Resources	☐	Land Use/Planning	☒	Tribal Cultural Resources
☒	Cultural Resources	☐	Mineral Resources	☐	Utilities/Service Systems
☐	Energy	☐	Noise	☐	Wildfire
☒	Geology/Soils	☐	Population/Housing	☐	Mandatory Findings of Significance

DETERMINATION: (To be completed by the Lead Agency)

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.

Rucha Dande	04/19/2023
Signature	**Date**
Rucha Dande	Senior Planner
Printed Name	**Title**
City of San Carlos	
Agency	

3.1 AESTHETICS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
*Would the project:**				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐
*Except as provided in Public Resources Code Section 21099				

3.1.1 Environmental Setting

The project site is located in a largely residential urbanized setting in the northwest portion of the City. Prominent visual features of the regional landscape are described below, along with the visual and aesthetic character of the project site.

The project site is located on the northern side of San Carlos Avenue, southwest of El Camino Real (State Route 82). San Carlos Avenue is a two-lane roadway that runs roughly in an east-west orientation. The project site is steeply sloping and is currently developed with a partially paved driveway and some utility infrastructure remaining from the two single-family residences and associated structures, which were demolished in 2022 under a separate permitting process with the City. The site is largely undeveloped and contains a combination of native vegetation, including eucalyptus and oak trees and ornamental vegetation. See Figure 2-3 for photos of the existing project site.

The project site is located among single-family residential land uses to north, east, and south, park and open space land uses to the west, and school land uses to the south. The residences in the surrounding neighborhood (i.e., within 150 feet of the site boundary) embody a variety of architectural styles, including ranch, contemporary, and bungalow. A majority (68 percent) of the homes are two-story homes. The exterior facades of the surrounding residences use predominantly earth tone and off-white colors, though several residences have blue, green, or gray facades. Over 80 percent of the homes have asphalt shingle roofing. The location of garages relative to residences in the neighborhood vary across lots; some garages project from the front of the face of the house, some are recessed, and one home has a garage facing to the side when viewed from the street. All homes in the vicinity have two-car garages. Landscaping in the neighborhood consists of large redwood trees in front yards, landscaping to the street's edge, and small gardens or retaining walls at the street's edge. The neighborhood does not

contain sidewalks. Residences in the vicinity share similar characteristics in that they are set into hillsides behind natural vegetation and consist of 1950's to 1960's era homes with some contemporary additions and remodels.

Arundel Elementary School, located across Phelps Road to the south-southwest, consists predominantly of single- and two-story beige-colored buildings with green trim and fascia and taupe-colored roofing.

Arguello Park to the west of the project site contains a small parking area, a playing field, bathrooms, and an open grassy, tree covered slope contiguous with the project site. The open grassy slope provides a visual backdrop of undeveloped urban open space with native vegetation.

The nearest State scenic highway to the project site is I-280 approximately 1.66 miles southwest of the project site (Caltrans 2018). The project site is not visible from the scenic highway.

San Carlos has varied topography which ranges from land at sea level to the hilly western portion of the City with elevations up to 900 feet. The hillsides and ridgelines that comprise the City's diverse landscape provide a rich array of scenic resources and afford numerous vantage points from which scenic vistas can be enjoyed. The primary scenic views of the Santa Cruz Mountains to the southwest are not visible from lower portions of the project site due to intervening terrain and structures but may be somewhat present from the upper slopes of the project site. The project site is visible to many residents in the surrounding hilly areas which face east and look out towards the hillside containing the project site.

Existing light sources on and near the site include exterior building lights, lights in the adjacent Arundel Elementary School parking lot and tennis courts. The nearest streetlight is located at the intersection of Phelps Road and the Arundel Elementary School parking lot. There are no sources of substantial daytime glare near the project site; the exteriors of the buildings near the project site consist mostly of stucco, board & batten, clapboard, and a combination of stucco or siding over brick or stone, all of which are non-reflective materials.

3.1.2 Discussion

Would the proposed project:

a) Have a substantial adverse effect on a scenic vista?

Less than Significant Impact. The City of San Carlos General Plan does not identify any scenic vistas within the City's jurisdiction. The proposed project is located within an urban developed area. While the site is not considered part of a scenic vista, the site currently provides scenic value as an undeveloped hillside with extensive mature vegetation. Because the project site is contiguous with Arguello Park, the combined parcels present a sizeable area of undeveloped hillside lands. Distant views of the project vicinity are available to certain residents living on streets in the hilly areas west and north of the project site, such as Wellington Drive, Wessex Way, Clifton Avenue. Currently the project site appears as an extension of Arguello Park. With project development, the project site will appear similar to the other residential development surrounding the project site, particular once project site landscaping becomes established.

Near-by views of the site's hillside terrain are provided from public roadways, including Phelps Road, Spring Valley Road, and Wellington Drive. Figure 3-1 Before and After Visual Simulations below includes before and after simulations of views of the project site from Phelps Road, Spring Valley Road, Sheldon Avenue, and Wellington Drive.

The proposed project would result in a substantial alteration of existing topography and removal of mature trees and non-native vegetation, altering views of the site from the immediately

surrounding homes. The visually distinctive rocky outcrop in the center of the site would be retained. The design and tones (predominantly neutral and earth tones) of the selected exterior materials of the new homes have been selected to blend with and not substantially contrast with the surrounding vegetation. The landscaping plan and required tree replacement would replace removed vegetation with native, drought tolerant vegetation.

As shown in Figure 3-1, the proposed homes would be readily visible from Phelps Road and Spring Valley Way. Views of the proposed homes from Wellington Drive would be comparatively less apparent, but the homes would still be visible. The homes as viewed from Wellington Drive would not contrast substantially with the surrounding environment as the selected tones of the exterior building materials complement the surrounding vegetation. Similarly, the homes as viewed from Sheldon Avenue would not substantially contrast with the surrounding environment.

For the reasons described above, the project would not have an adverse effect on a scenic vista. There would be a less than significant impact.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. The nearest State scenic highway to the project site is Interstate 280, approximately 1.66 miles to the southwest (Caltrans 2018). Therefore, development of the proposed project would not damage scenic resources within a State scenic highway. No impact would occur.

Photo 1. Existing view of the site from Phelps Road before development.

Photo 2. Visual simulation of proposed project from Phelps Road after development.

Figure 3-1 Visual Simulations

San Carlos Phelps Road Residential Subdivision

Photo 3. Existing view of the site from Spring Valley Way before development.

Photo 4. Visual simulation of proposed project from Spring Valley Way after development.

Figure 3-1 Visual Simulations

San Carlos Phelps Road Residential Subdivision

Photo 5. Existing view of the site from Sheldon Way before development.

Photo 6. Visual simulation of proposed project from Sheldon Way after development.

Figure 3-1 Visual Simulations

San Carlos Phelps Road Residential Subdivision

Photo 7. Existing view of the site from Wellington Drive before development.

Photo 8. Visual simulation of proposed project from Wellington Drive after development.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less than Significant Impact. While development of the proposed project would represent a change to the existing visual character of the project site (from undeveloped hillside to nine homes and associated roadways and infrastructure), the proposed project would be consistent with the overall neighborhood character within the surrounding area, which consists largely of single-family homes. The design of the proposed project includes features to enhance the visual character of the project site. Specifically, the proposed project would retain the rocky outcrop in the center of the site and would include landscaping and trees throughout the property. Renderings of the exteriors of the Lots 1, 2, 3, 8, and 9 homes (see Figure 2-5 and Figure 2-6) show that the homes would have a modern architectural style and the massing of the buildings would be articulated to distinguish building elements. Exterior materials would be varied and would include fiber cement siding, board formed concrete siding, smooth black stucco, light gray stucco, standing seam roof and wall cladding, natural wood soffits, aluminum framed windows, natural wood deck, and oversize concrete pavers. The project's proposed two-story homes would be of a similar size and mass as the existing single-story and two-story homes in the surrounding neighborhood. The project would not conflict with the City's zoning or other regulations governing scenic quality. The proposed project would also be subject to City Design Review to ensure consistency with the City's development regulations. Therefore, development of the proposed project would not substantially degrade the visual quality of the site or its surroundings. This impact would be less than significant.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less than Significant. Exterior lighting provided on and around the new homes would consist of a combinations of building wall lighting and pathway lighting. Lighting is proposed along the driveways and pathways of each lot and affixed to the ground levels of each home. The source, intensity, and type of exterior lighting for the project site would be typical for orientation and safety needs. Fixture types would include bollard driveway lights, path lights, wall step lights, and indirect wall-mounted exterior lights. All on-site lighting would be low-level illumination and would be shielded to reduce light spill or glare.

Adjacent residences located immediately south and southeast of the site would be the closest sensitive receptors to light and glare emanating from the project site. Exterior lights for landscaping and building illumination would not create substantial light spillage as project lighting must comply with Municipal Code (Section 18.15.070 Lighting and Illumination) requirements, which include standards to reduce light spillover. The nearest travel lanes on Phelps Road and Spring Valley Way are located immediately west, south, and east of the project site; however, proposed lighting would not adversely affect nighttime views from these roadways considering project lighting would be typical of single-family residential homes, which exist in the surrounding neighborhood. Overall, interior and exterior lighting provided by the proposed project would be consistent with the residential context of the project site and would not be considered substantial.

Exterior building materials would be varied and include fiber cement siding, board formed concrete siding, smooth black stucco, light gray stucco, standing seam roof and wall cladding, natural wood soffits, and aluminum framed windows. Most of the proposed exterior building materials do not consist of materials that typically produce glare, though the proposed windows do have the potential to create glare. The homes' exterior walls would consist predominantly of materials such as cement siding and stucco; as such, the potential for glare would be reduced due to the comparatively smaller area occupied by windows. Many of the homes' windows

would be set back into the building façade and would be framed by decorative black aluminum, which would help to reduce potential glare. Further, most of the proposed homes have been designed with canopies and overhangs that protrude over the windows, which would further reduce glare. Overall, the design of the proposed project is consistent with the residential context of the project site and would not contribute to substantially increased glare. This impact would be less than significant impact.

3.1.3 References

Caltrans 2018. California State Scenic Highway System Map. Accessed on February 9, 2023 at https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa.

City of San Carlos. 2022. Municipal Code Section 18.15.070 Lighting and Illumination.

___ . 2009. City of San Carlos 2030 General Plan.

John Lum Architecture 2022. Clarum Homes San Carlos Revised Plan Set. Revised December 13, 2022.

3.2 AGRICULTURAL AND FOREST RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:*				
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?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
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?	☐	☐	☐	☒
*In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.				

3.2.1 Environmental Setting

The project site is located in the City of San Carlos on a partially developed site surrounded by residential, park, and school land uses. The California Department of Conservation's Farmland Mapping and Monitoring Program identifies the site as Urban and Built-up Land (CDOC 2022).

3.2.2 Discussion

Would the proposed project:

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?

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

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

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?

No Impact (Responses a – e). There are no forest lands or agricultural lands on or near the proposed project site, which is currently developed with two single-family residences and associated structures. The project would not convert or cause the conversion of any farmland or forest land to a non-agricultural/non-forest use. The proposed project would not impact Prime Farmland, Unique Farmland, Farmland of Statewide Importance, forest land, or land under a Williamson Act contract. Therefore, the project would not result in impacts to any agricultural or forestry resources. No impact would occur.

3.2.3 References

California Department of Conservation (CDOC). 2022. Farmland Mapping and Monitoring Program. California Important Farmland Finder. Accessed April 15, 2022 at https://maps.conservation.ca.gov/DLRP/CIFF/.

3.3 AIR QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:*				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒
b) 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?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☒	☐	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐
*Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.				

3.3.1 Environmental Setting

Air quality is a function of pollutant emissions and topographic and meteorological influences. Physical atmospheric conditions such as air temperature, wind speed, and topography influence air quality.

Criteria Air Pollutants

Federal, state, and local governments control air quality through the implementation of laws, ordinances, regulations, and standards. The federal and state governments have established ambient air quality standards for "criteria" pollutants considered harmful to the environment and public health. National Ambient Air Quality Standards (NAAQS) have been established for carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO_2), ozone (O_3), fine particulate matter (particles 2.5 microns in diameter and smaller, or $PM_{2.5}$), inhalable coarse particulate matter (particles 10 microns in diameter and smaller, or PM_{10}), and sulfur dioxide (SO_2). California Ambient Air Quality Standards (CAAQS) are more stringent than the national standards for the pollutants listed above and include the following additional pollutants: hydrogen sulfide (H_2S), sulfates (SO_X), and vinyl chloride. In addition to these criteria pollutants, the federal and state governments have classified certain pollutants as hazardous air pollutants (HAPs) or toxic air contaminants (TACs), such as asbestos and diesel particulate matter (DPM).

San Francisco Bay Area Air Basin

The proposed project is located in the San Francisco Bay Area Air Basin (SFBAAB), an area of non-attainment for both the 1-hour and 8-hour state ozone standards, and the national 24-hour $PM_{2.5}$ standard. The SFBAAB is comprised of nine counties: all of Alameda, Contra Costa, Santa Clara, San Francisco, San Mateo, Marin, Napa, and the southern portions of Solano and Sonoma. In San Mateo County, $PM_{2.5}$ exceeds the national standard only on about one day each year (BAAQMD 2017a).

The San Francisco Bay area is generally characterized by a Mediterranean climate with warm, dry summers and cool, damp winters. During the summer daytime high temperatures near the coast are primarily in the mid-60s, whereas areas farther inland are typically in the high-80s to

low-90s. Nighttime low temperatures on average are in the mid-40s along the coast and low to mid-30s inland.

The Mediterranean climate is seen along most of the West Coast of North America and is primarily due to a (typically dominating) high-pressure system, located off the west coast of North America, over the Pacific Ocean. During the summer and fall months the high-pressure ridge is at its strongest and therefore provides a more stable atmosphere. Warm temperatures and a stable atmosphere associated with the high-pressure ridge provide favorable conditions for the formation of photochemical pollutants (e.g., O_3) and secondary particulates (e.g., nitrogen oxides (NO_x) and SO_2).

Varying topography and limited atmospheric mixing throughout the SFBAAB restrict air movement resulting in reduced dispersion and higher concentrations of air pollutants. The SFBAAB is most susceptible to air pollution during the summer when cool marine air flowing through the Golden Gate can become trapped under a layer of warmer air (a phenomenon known as an inversion) and is prevented from escaping the valleys and bays created by the Coast Ranges.

Sensitive Receptors

A sensitive receptor is generally defined as a location where human populations, especially children, seniors, and sick persons, are located where there is reasonable expectation of continuous human exposure to air pollutants. These typically include residences, hospitals, and schools. Sensitive receptors within 1,000 feet of the project site include:

- Individuals visiting Arguello Park, located west of the project site
- Single-family residential receptors northwest of the project site on Highland Court and Highland Avenue
- Single-family residential receptors north of the site on Alta Lane, Northam Avenue, and Highland Avenue
- Single-family residential receptors northeast and east of the project site on Del Rey Court and Highland Avenue, Madrona Street, and Hillcrest Road
- Single-family residential receptors southeast of the site on Phelps Road, Arundel Road and Palm Avenue
- Student receptors south of the site at Arundel Elementary School
- Single-family residential receptors south of the site on San Carlos Avenue and Arundel Road
- Single-family residential receptors southwest of the project site on Clifton Avenue and Willington Drive

3.3.2 Regulatory Setting

CARB In-Use Off-Road Diesel Vehicle Regulation

On July 26, 2007, CARB adopted a regulation to reduce DPM and NO_x emissions from in-use (existing) off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. This regulation applies to all off-road diesel vehicles over 25 horsepower (hp) used in California and most two-engine vehicles (except on-road two-engine sweepers), which are subject to the *Regulation for In-Use Off-Road Diesel Fueled Fleets (Off-Road regulation).* Additionally, vehicles that are rented or leased (rental or leased fleets) are included in this regulation. This regulation:

- Imposes limits on idling, requires a written idling policy, and requires a disclosure when selling vehicles;
- Requires all off-road diesel vehicles over 25-horsepower be reported to CARB (using the Diesel Off-Road Online Report System DOORs) and labeled;
- Restricts the adding of older vehicles into fleets; and,
- Requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies, VDECS (i.e., exhaust retrofits).

CARB In-Use Off-Road Diesel Vehicle Regulation

CARB's In-Use Heavy-Duty Diesel-Fueled regulation (also known as the Truck and Bus Regulation) is intended to reduce emission of NO_x, PM, and other criteria pollutants generated from existing on-road diesel vehicles operating in California. The regulation applies to nearly all diesel fueled trucks and buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds that are privately or federally owned, and for privately and publicly owned school buses. Heavier trucks and buses with a GVWR greater than 26,000 pounds must comply with a schedule by engine model year or owners can report to show compliance with more flexible options. Fleets complying with the heavier trucks and buses schedule must install the best available PM filter on 1996 model year and newer engines and replace the vehicle 8 years later. Trucks with 1995 model year and older engines had to be replaced starting 2015. Replacements with a 2010 model year or newer engines meet the final requirements, but owners can also replace the equipment with used trucks that have a future compliance date (as specified in regulation). By 2023, all trucks and buses must have at least 2010 model year engines with few exceptions.

Bay Area Air Quality Management District

The BAAQMD is the agency primarily responsible for maintaining air quality and regulating emissions of criteria and toxic air pollutants within the SFBAAB. The BAAQMD carries out this responsibility by preparing, adopting, and implementing plans, regulations, and rules that are designed to achieve attainment of state and national air quality standards.

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Table 3-1: Potentially Applicable BAAQMD Rules and Regulations

Regulation	Rule	Description
1- General Provisions and Definitions	1- General Provisions and Definitions	301 – Public Nuisance: Establishes that no person shall discharge quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number or person or the public; or which endangers the comfort, repose, health, or safety of any such person or the public.
6 – Particulate Matter	1 – General Requirements	Limits visible particulate matter emissions.
6 – Particulate Matter	3 – Wood-Burning Devices	No wood-burning devices of any kind may be installed in new homes or buildings being constructed in the Bay Area.

Table 3-1: Potentially Applicable BAAQMD Rules and Regulations

Regulation	Rule	Description
6 – Particulate Matter	6 – Prohibition of Trackout	Limits the quantity of particulate matter through control of trackout of solid materials on paved public roads from construction sites that are greater than one acre in size.
8 – Organic Compounds	3 – Architectural Coatings	Sets forth VOC limitations and requirements for architectural coatings. Flat, non-flat, and non-flat – high glass coatings are required to meet standards of 50, 100, and 150 grams of VOC per liter (g/L), respectively. Traffic marking coatings are required to meet a standard of 100 g/L.
7- Odorous substances	Odorous Substances	Establishes general limitations on odorous substances and specific emission limitations on certain odorous compounds, such as ammonia.
11 – Hazardous Pollutants	2 – Asbestos Demolition, Renovation, and Manufacturing	Controls emissions of asbestos to the atmosphere during demolition.
Source: BAAQMD, 2019.		

On April 29, 2017, the BAAQMD adopted its *Spare the Air-Cool the Climate 2017 Clean Air Plan* (Clean Air Plan). The 2017 Clean Air Plan updates the most recent Bay Area ozone plan, the 2010 Clean Air Plan, in fulfillment of state ozone planning requirements. The Plan focuses on the three following goals:

- Attain all state and national air quality standards;
- Eliminate disparities among Bay Area communities in cancer health risk from toxic air contaminants; and
- Reduce Bay Area GHG emissions to 40 percent below 1990 levels by 2030, and 80 percent below 1990 levels by 2050.

The plan includes 85 distinct control measures to help the region reduce air pollutants and has a long-term strategic vision which forecasts what a clean air Bay Area will look like in the year 2050. The control measures aggressively target the largest source of GHG, ozone pollutants, and particulate matter emissions – transportation. The 2017 Clean Air Plan includes more incentives for electric vehicle infrastructure, off-road electrification projects such as Caltrain and shore power at ports, and reducing emissions from trucks, school buses, marine vessels, locomotives and off-road equipment (BAAQMD 2017b).

3.3.3 Discussion

Would the proposed project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

No Impact. The proposed project would not conflict with nor obstruct implementation of the Bay Area Air Quality Management District (BAAQMD) *2017 Clean Air Plan* (BAAQMD 2017b). The *2017 Clean Air Plan* includes increases in regional construction, area, mobile, and stationary source activities, and operations in its emission inventories and plans for achieving attainment of air quality standards. Chapter 5 of the *Clean Air Plan* contains the BAAQMD's strategy for achieving the plan's climate and air quality goals. This control strategy is the backbone of the *Clean Air Plan*.

The proposed project would consist of developing nine new single-family residences, extending / constructing roadways so that the new residences could be accessed, and installing necessary utility infrastructure. The proposed project would not exceed the level of population or housing

foreseen in city or regional planning efforts; therefore, it would not have the potential to substantially affect housing, employment, and population projections within the region, which are the basis of the *2017 Clean Air Plan* projections.

The *2017 Clean Air Plan* includes 85 control measures that are grouped into nine categories. Most of these control measures would not apply to the project, because they are implemented at the local and regional local by municipal governments and/or the BAAQMD. Table 3-2 summarizes the project's consistency with potentially applicable control strategies from the *2017 Clean Air Plan* (BAAQMD 2017b).

Table 3-2: BAAQMD 2017 Clean Air Plan Control Measures Consistency

Measure		Description
Building Control Measures	BL1: Green Buildings	Consistent. The project would exceed CalGreen Code standards and be all-electric.
	BL4: Urban Heat Island Mitigation	Consistent. The project would be subject to the 2019 Title 24 Building Code, and would have "cool roofs," meaning that they would reflect more sunlight than a conventional roof, absorbing less solar energy. This in turn lowers the temperature of the building and helps reduce the urban heat island effect.
Waste Management Control Measures	WA4: Recycling and Waste Reduction	Consistent. The project would divert construction waste, consistent with CalGreen Code requirements.

As shown in Table 3-2, the proposed project would be consistent with the *2017 Clean Air Plan* and therefore not conflict with it. Furthermore, as described under b), below, the increase in regional emissions generated by the proposed Project would be less than the BAAQMD's emissions thresholds. No impact would occur.

b) 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?

Less Than Significant Impact. The proposed project would generate both short-term construction emissions and long-term operational emissions. The project's potential emissions were estimated using the California Emissions Estimator Model (CalEEMod), Version 2020.4.0. As described in more detail below, the proposed project would not generate short-term or long-term emissions that exceed BAAQMD-recommended criteria air pollutant thresholds.

Construction Emissions

The proposed Project involves the removal of trees and other materials at the Project site, earthwork and grading activities, and the construction of nine new single-family homes. As described in Section 2.3, construction activities are anticipated to begin in 2023 and last approximately 22 months. Construction activities are anticipated to include demolition, site preparation, excavation, and grading, building construction, paving, and architectural coating. Construction emissions would be generated on-site during the use of heavy-duty, off-road construction equipment (e.g., backhoes, graders, forklifts, etc.) and off-site during worker, vendor, and hauling trips.

The proposed project's potential construction emissions were estimated using default CalEEMod assumptions, with the following project-specific modifications:

- **Construction Phases and Schedule:** CalEEMod default assumptions for construction phases and scheduling were adjusted to reflect project-specific information provided by the Applicant. The CalEEMod input file overall construction schedule was lengthened to reflect that activities would be carried out over an approximately 22-month period. Eight (8) months of construction would be related to demolition, site preparation, and grading, while the remaining 14 months of construction would be related to building development, paving, and architectural coating.
- **Construction Equipment:** CalEEMod default assumptions for construction equipment were modified to reflect Project-specific construction activities, phasing, and timelines, as provided by the Project Applicant.
- **Material Off-haul:** The modeling accounts for the off-haul of approximately 500 tons of material. This material export from the site accounts for trees and other materials (e.g., building foundations / footings) that may need to be removed from the site.
- **Soil Hauling:** Based on information provided by the Applicant, the project would include the export of approximately 10,740 cubic yards of soil from the site during the excavation phase. The Applicant indicated that soil would be off hauled to Livermore. Therefore, the average one-way haul trip distance was updated from 20 miles to 50 miles.
- **Fugitive Dust Control Measures:** Fugitive dust control measures consistent with BAAQMD guidelines were incorporated in the construction emissions modeling (see also the COA discussion below). Specifically, the model assumes the site would be watered twice a day, reducing fugitive dust emissions by 55%.

The project's estimated construction criteria air pollutant emissions are presented in Table 3-3 Refer to Appendix A: Air Quality/GHG Calculations for detailed CalEEMod assumptions and output files.

As shown in Table 3-3, construction emissions associated with the proposed project would be below all BAAQMD significance thresholds for criteria air pollutant emissions; however, as indicated in the BAAQMD's *CEQA Guidelines*, fugitive dust emissions are considered potentially significant, regardless of the quantity of PM_{10} or $PM_{2.5}$ emitted unless the BAAQMD's eight, recommended fugitive dust BMPs are implemented during construction activities (BAAQMD 2017c, pg. 8-4).

As a Condition of Approval (COA) for the proposed project, the City would require the implementation of the BAAQMD's eight Construction Fugitive Dust Best Management Practices and shall provide notes on the plans submitted to the Building Division for permits.

Table 3-3: Estimated Project Construction Criteria Air Pollutant Emissions

Year / Scenario	Pollutant Emissions (Tons Per Year)						
	ROG	nOx	CO	PM10		PM2.5	
				Dust(A)	Exhaust	Dust(A)	Exhaust
UNMITIGATED							
2023	0.2	2.6	2.2	0.3	0.1	0.1	0.1
2024	0.4	1.2	1.6	<0.1	0.1	<0.1	<0.1
MITIGATED(B)							
2023	0.1	0.8	2.6	0.3	<0.1	0.1	<0.1
2024	0.3	0.3	1.8	<0.1	<0.1	<0.1	<0.1
Year / Scenario	**Pollutant Emissions (Average Pounds per Day)**						
	ROG	**nOx**	**CO**	**PM10**		**PM2.5**	
				Dust(A)	**Exhaust**	**Dust(A)**	**Exhaust**
UNMITIGATED							
2023(C)	1.8	19.4	16.8	2.3	0.8	1.0	0.7
2024(D)	3.6	10.7	14.9	0.2	0.5	0.1	0.5
MITIGATED							
2023(C)	0.6	5.9	19.9	2.3	0.1	1.0	0.1
2024(D)	2.8	3.2	16.3	0.2	0.1	0.1	0.1
BAAQMD CEQA Threshold	**54**	**54**	**--**	**BMPs**	**82**	**BMPs**	**82**
Potentially Significant Impact?	**No**	**No**	**No**	**No**	**No**	**No**	**No**

BAAQMD 2017c and MIG 2022. See Appendix A.1.

(A) For all projects, the BAAQMD recommends implementing eight basic construction best management practices (BMPs) to control fugitive dust from construction activities. The emissions presented herein reflect compliance with these BMPs.

(B) As identified under response c), the City would implement Mitigation Measure AIR-1 to address a potentially significant health risk impact during construction. Mitigation Measure AIR-1 would not be required to reduce criteria air pollutant emissions but would have the benefit of reducing the magnitude of an already less-than-significant impact here.

(C) Average daily emissions for 2023 assume 264 total active construction days (22 construction days per month for 12 months).

(D) Average daily emissions for 2024 assume 220 total active construction days (22 construction days per month for 10 months).

Operational Emissions

Upon completion of construction activities, the proposed project would generate emissions of regulated air pollutants from:

- **"Area" Sources.** The proposed land use would generate emissions from small area sources, including landscaping equipment, and the use of consumer products (e.g., paints, cleaners, and fertilizers) that result in the evaporation of chemicals into the atmosphere during product use.
- **Mobile Sources.** The proposed land use would generate emissions from vehicle traveling to and from the project site.

The proposed project's operational emissions were estimated using CalEEMod. Criteria air pollutant emissions from operation of the proposed project were estimated using CalEEMod, version 2020.4.0, based on the project's first year of operation (presumed to be 2025) using default data assumptions contained in CalEEMod, with the following project-specific modification:

- **Natural Gas.** The nine (9) single family homes would be designed to be all electric; the Project would not consume energy in the form of natural gas. Therefore, the Project's natural gas energy consumption was removed from the model.

The proposed Project's estimated operational emissions are presented in Table 3-4.

Table 3-4: Estimated Project Operational Criteria Air Pollutant Emissions

Source	Pollutant Emissions (Tons per Year)				
	RoG	**NOx**	**CO**	**PM_{10}**	**$PM_{2.5}$**
Area Sources	0.2	<0.1	0.1	<0.1	<0.1
Mobile Sources	<0.1	<0.1	0.3	0.1	<0.1
TOTAL[(A)]	**0.2**	**<0.1**	**0.4**	**0.1**	**<0.1**
BAAQMD CEQA Threshold	**10**	**10**	**--**	**15**	**10**
Potentially Significant Impact?	**No**	**No**	**No**	**No**	**No**
Source	**Pollutant Emissions (Average Pounds per Day)**				
	RoG	**NOx**	**CO**	**PM_{10}**	**$PM_{2.5}$**
Area Sources	0.9	<0.1	0.4	<0.1	<0.1
Mobile Sources	0.2	0.2	1.6	0.4	0.1
TOTAL[(A)]	**1.1**	**0.2**	**2.0**	**0.4**	**0.1**
BAAQMD CEQA Threshold	**54**	**54**	**--**	**82**	**54**
Potentially Significant Impact?	**No**	**No**	**No**	**No**	**No**

BAAQMD 2017c and MIG 2022. See Appendix A.1.

(A) Totals may not equal due to rounding.

As shown in Table 3-4, operational criteria air pollutant emissions associated with the proposed project would be below the BAAQMD regional thresholds. Therefore, operation of the proposed project would not generate a cumulatively considerable increase in criteria air pollutants, and impacts would be less than significant.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact with Mitigation Incorporated. As described in Section 3.3.1, sensitive residential receptors generally surround the project site, and the Arundel Elementary School is located southwest of the project site. Nearly all the project's $PM_{2.5}$ emissions from equipment exhaust would be diesel particulate matter (DPM), a TAC. Accordingly, a health risk assessment (HRA) was prepared to assess potential risks associated with sensitive receptor exposure to DPM during project construction activities, as estimated using CalEEMod (see Table 3-3). The construction HRA evaluated DPM emissions associated with on- and off-road diesel fuel trucks and equipment. Gasoline-fuel vehicles emit various TACs in much smaller

quantities and health toxicity compared to DPM. Thus, gasoline fueled emission sources were not included in the HRA.

The proposed project would involve different construction activities occurring at different intensities over an approximately 22-month period, beginning in 2023. Receptors, therefore, would be exposed to varying concentrations of pollutants throughout the construction period. Health risks were assessed according to the recommendations in the BAAQMD's *Recommended Methods for Screening and Modeling Local Risks and Hazards* and *Air Toxics New Source Review Program Health Risk Guidelines*, as well as the U.S. EPA's *AERMOD Implementation Guide* and Office of Environmental Health Hazard Assessment's *Air Toxics Hot Spots Program Guidance Manual* (OEHHA 2015; U.S. EPA 2022; BAAQMD 2012, 2016). The DPM concentrations produced by the project during construction – as estimated using the air pollutant dispersion model, AERMOD, at a height of 1.5 meters above ground level (i.e., the approximate height of a receptor's mouth and nose) – were used to derive the individual excess cancer risk and non-carcinogenic health hazard index from potential exposure to DPM. Refer to Appendix A.2 for detailed AERMOD[2] modeling assumptions and health risk assessment methodology, Appendix A.3 for AERMOD output files, and Appendix A.4 for HRA calculations.

Construction HRA Results

Individual Carcinogenic Risk from Exposure to DPM

The predicted locations of the annual, unmitigated point of maximum impact (PMI) and the maximum exposed individual receptor (MEIR) for DPM exposure are shown in Figure 3-2 Construction Health Risk Assessment: MEIR/PMI.

The predicted location of the annual, unmitigated point of maximum impact (PMI) and the maximally exposed individual resident (MEIR) for DPM exposure during construction for Year 1 and Year 2 are located in the same spot, immediately southwest of the project site at 5 Spring Valley Way in the City of San Carlos, CA 94070 (5641913.23 m E; 4151093.66 m N) (see Figure 3-2). Accordingly, health risks were assessed at this MEIR location. The HRA for residential receptors evaluated worst-case carcinogenic and non-carcinogenic risks to child (3rd trimester, 0-2 years, and 2-16 years) and adult (16-30 years and 30-70 years) receptors. The maximally exposed individual student (MEIS) would be located at the northeastern-most building of the Arundel Elementary School, across the road from 325 Phelps Road in the City of San Carlos, CA 94070 (564134.00 m E; 4151067.00 m N). Potential adverse health effect associated with student exposure to construction emissions were also assessed based on modeled concentrations at this location. Table 3-5 and Table 3-6 summarize the results of the construction HRA at the MEIR and MEIS locations, respectively.

[2] The AERMOD dispersion model is a United States Environmental Protection Agency-approved and BAAQMD-recommended model for simulating the dispersion of pollutant emissions and estimating concentrations of pollutants at specified receptor locations.

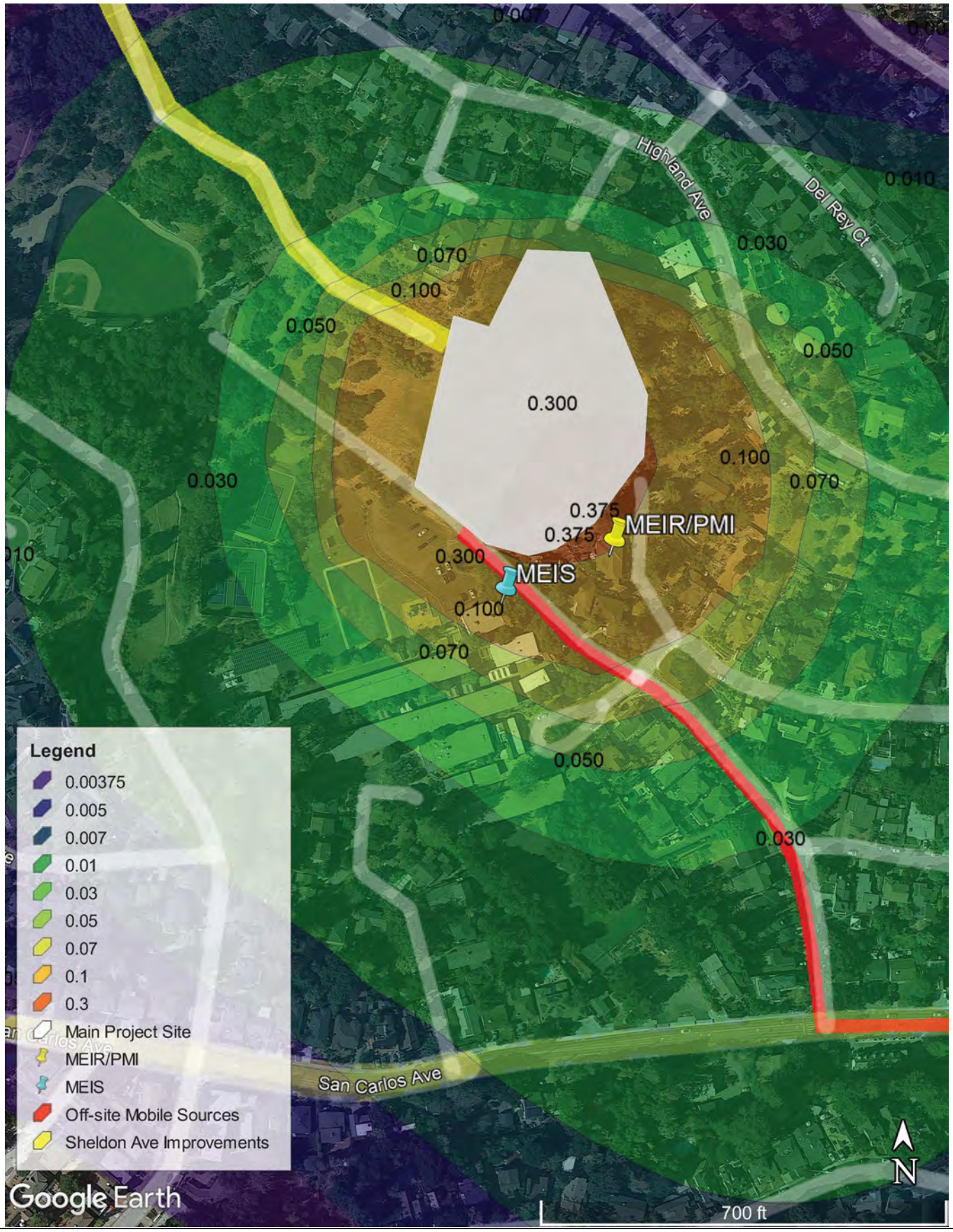

Figure 3-2 Construction Health Risk Assessment: MEIR/PMI and MEIS – Year 1 Unmit

San Carlos Phelps Road Residential Subdivision

Table 3-5: MEIR Increased Cancer Risk from Project Construction DPM Emissions

Year	Health Risk Increase at MEIR(A)	
	Unmitigated	**Mitigated**
Residential Child Receptor		
Year 1	52.0	5.3
Year 2	24.4	3.3
Total Incremental Health Risk Increase	76.4	8.6
BAAQMD Significance Threshold	10	10
Significant Impact?	**Yes**	**No**
Residential Adult Receptor		
Year 1	0.8	0.1
Year 2	0.4	0.1
Total Incremental Health Risk Increase	1.3	0.1
BAAQMD Significance Threshold	10	10
Significant Impact?	**No**	**No**

MIG 2022. See Appendix A.4
(A) Maximum exposed residential receptor located at 564191.23 m E and 4151093.66 m N.

Table 3-6: MEIS Increased Cancer Risk from Project Construction DPM Emissions

Year	Health Risk Increase at MEIS(A)	
	Unmitigated	**Mitigated**
Year 1	1.1	0.1
Year 2	0.4	0.1
Total Incremental Health Risk Increase	1.5	0.2
BAAQMD Significance Threshold	10	10
Significant Impact?	No	**No**

MIG 2022. See Appendix A.4
(B) Maximum exposed residential receptor located at 564134.00 m E and 4151067.00 m N.

As shown in Table 3-5 the calculated risks for the MEIR are greatest for child receptors; in particular, child receptors that are less than two years old at the start of construction activities. The calculated excess individual cancer risk for this subset of the population is substantially higher (approximately 7.6 times higher) than the BAAQMD-recommended significance threshold value of 10 excess cancers per million population (see Appendix A.4 for all health risk assessment results). At the same DPM concentrations, risks to children ages 2-16 would slightly over the BAAQMD-recommended significance threshold, and risks to adult receptors would approximately one tenth of the BAAQMD-recommended threshold. Unmitigated risks to this MEIS would be below the BAAQMD threshold, between a tenth and twentieth of the BAAQMD's 10 excess cancers per million population threshold.

The magnitude of the project's predicted cancer risks at sensitive residential receptors is partly a function of the latest OEHHA and BAAQMD-guidance on HRAs, which account for increased susceptibility from exposure to TACs in early life stages but is primarily a function of the anticipated construction activities, equipment usage, and the close proximity of the receptors to the proposed construction activities (i.e., adjacent to the project site).

To reduce potential DPM (and $PM_{2.5}$) emissions generated by project construction activities, Mitigation Measure AIR-1 would be incorporated into the project. Mitigation Measure AIR-1 requires all mobile diesel construction equipment greater than 50 horsepower to meet U.S. EPA Tier IV emission standards.

Impact AIR-1: Construction equipment would generate DPM emissions that could result in adverse health risks that are above applicable BAAQMD thresholds.

Mitigation Measure AIR-1: To reduce potential, short-term adverse health risks associated with $PM_{2.5}$ emissions, including emissions of DPM generated during project construction activities, the City shall require the project Applicant and/or its designated contractors, contractor's representatives, or other appropriate personnel to comply with the following construction equipment restrictions:

- All mobile construction equipment greater than 50 horsepower in size shall meet with United State Environmental Protection Agency (U.S. EPA) and California Air Resources Board (CARB) Tier IV Exhaust Emission Standards. This may be achieved via the use of equipment with engines that have been certified to meet U.S. EPA and CARB Tier IV emissions standards, or through the use of equipment that has been retrofitted with a CARB-verified diesel emission control strategy (e.g., particulate filter) capable of reducing exhaust $PM_{2.5}$ emissions to levels that meet U.S. EPA and CARB Tier IV emissions standards.

  Effectiveness: This measure would reduce potential carcinogenic health risks by approximately 88.7 percent, and to levels that are below applicable BAAQMD risk thresholds.

  Implementation: The Applicant shall include this requirement on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents.

  Timing: During construction activities.

  Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of this requirement and verify the construction equipment utilized during construction meet the Tier IV emission standards.

As shown in Table 3-5, potential health risks would be reduced from approximately 76.4 to 8.6 for a child receptor under the age of two at the MEIR location, which lowers the estimated carcinogenic health risk below the BAAQMD significance threshold value of 10 excess cancers per million population. Since the proposed project would not expose any receptors to cancer health risks in excess of the BAAQMD's recommended threshold, this impact would be less than significant with mitigation incorporated.

Non-Carcinogenic Health Hazard from Exposure to DPM

The highest annual DPM concentration at any sensitive receptor location during construction would be 0.0300 $\mu g/m^3$, which would occur at the MEIR location during Year 1 of construction. Based on the chronic inhalation REL for DPM (5 $\mu g/m^3$), the calculated chronic hazard quotient during the maximum exposure to DPM concentration would be 0.006, which is below the BAAQMD's non-cancer hazard index threshold value of 1.0. The annual average DPM

concentration at the MEIR location in Year 2 of construction would be less than Year 1 and, therefore, would also be below the BAAQMD's non-cancer hazard index. The proposed project, therefore, would not result in significant non-carcinogenic health risks to receptors from DPM exposure.

Criteria Air Pollutant Exposure

As described in Section 3.3.1, both the U.S. EPA and CARB regulate common air pollutants on the basis of human health and/or environmental criteria, with the most commonly regulated air pollutants including NOx, PM, CO, etc., which can cause adverse human health effects. As shown in Table 3-3 and Table 3-4, the potential emissions of NOx, CO, and PM associated with development activities would not exceed the BAAQMD-recommended regional thresholds. This impact would be less than significant.

Carbon Monoxide Hotspots

A CO hotspot is an area of localized CO pollution that is caused by severe vehicle congestion on major roadways, typically near high volume intersections. The BAAQMD developed a screening threshold in 2010 which states that any project involving an intersection experiencing 44,000 vehicles per hour would require detailed analysis (BAAQMD, 2017 pg. 3-4). The proposed project would add approximately 66 net new vehicle trips to the roadway system per day, with a total of 5 and 6 net new trips during the AM and PM peak hours, respectively (Hexagon 2022). These volumes are well below the BAAQMD screening threshold. The proposed project would not cause intersection volumes to exceed any hourly (44,000) screening vehicle volumes maintained by the BAAQMD and, therefore, would not result in significant CO concentrations. This impact would be less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. Construction of the project would generate typical odors associated with construction activities, such as vehicle exhaust odors. The odors generated by the project would be intermittent and localized in nature and would disperse quickly. There are no other anticipated emissions. Therefore, the project would not create emissions or odors that adversely affect a substantial number of people. This impact would be less than significant.

3.3.4 References

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3.4 BIOLOGICAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
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 Wildlife or U.S. Fish and Wildlife Service?	☐	☒	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
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?	☐	☒	☐	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☐	☒	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

3.4.1 Environmental Setting

The project site is located at 308 and 310 Phelps Road in San Carlos, California, and is within the *San Mateo*, California 7.5-minute USGS Quadrangle. The project site is generally situated east of Interstate 280 and west of Interstate 101, within an urban residential neighborhood. The approximately 3.12-acre site previously contained two abandoned residences, several outbuildings, and paved driveways. The structures were removed from the project site in 2022. The site is generally surrounded by dense residential development to the north and east, an elementary school to the south, and public park open space to the west. Additional residential development is present further to the west and south. Habitats and landcover types and habitats on the site are composed of ornamental woodland, Native Perennial Bunchgrass Grassland, and developed. Vegetation and wildlife observed or associated with these habitats and landcover types are described below.

Landcover Types and Habitats

A reconnaissance-level field survey, conducted by MIG senior biologist Kim Briones, M.S. on February 17, 2022. During this survey, Ms. Briones identified ornamental woodland habitat and developed landcover within the project site. Existing habitats and landcover types within the project site are described below and their distribution is depicted in Figure 2-3 Existing Site Photos, Photos 1-4.

Ornamental Woodland

The ornamental woodland habitat comprises the majority of vegetation cover on the project site (Figure 2-3, Photo 1). Canopy cover within this habitat is dominated by several mature non-native blue gum (*Eucalyptus globulus*) scattered throughout the site, with occasional coast live oak (*Quercus agrifolia*) and evergreen pear (*Pyrus kawakamii*) along the eastern portion of the site. Other vegetation associated with the structures include a variety of ornamental trees such a California pepper (*Schinus molle*), and privet (*Ligustrum* sp.), and herbaceous species such as century plant (*Agave* sp.), prickly pear (*Opuntia* sp.), wild grape (*Vitis* sp.), potato bush (*Solanum erianthum*), Pacific ninebark (*Physocarpus capitatus*). Herbaceous vegetation consists of native wild hyacinth (*Dichelostemma capitatum*), and non-native grasses such as veldtgrass (*Ehrharta calycina*), ripgut brome (*Bromus diandrus*), wild oat (*Avena barbata*), Italian ryegrass (*Festuca perennis*), seaside barley (*Hordeum marinum*), and non-native forbs such as bur clover (*Meticago polymorpha*), bedstraw (*Galium aparine*), Bermuda buttercup (*Oxalis pes-caprae*), sow thistle (*Sonchus sp.*), milk thistle (*Silybum marianum*), and French broom (*Genista monspessulana*). Within the ornamental woodland, several rocky outcrops are also present along the northwestern portion of the site (Photo 2).

Despite the dominance of mostly non-native vegetation, the ornamental woodland supports many common woodland-associated species that occur in the region in native woodland habitats. For example, avian species including native bushtit (*Psaltriparus minimus*), dark-eyed junco (*Junco hyemalis*), white-breasted nuthatch (*Sitta carolinensis*), oak titmouse *(Baeolophus inornatus*), and hairy woodpecker (*Dryobates villosus*) may forage and nest in this habitat and all were observed or detected during the site visit. The mature eucalyptus trees provide suitable nesting habitat for several native raptors including red-tailed hawk (*Buteo jamaisensis*) and great horned owl (*Bubo virginianus*), both of which were also detected during the survey. Native mammals that typically nest and forage in woodland habitats include black-tailed deer (*Odocoileus hemionus columbianus*), deer mice (*Peromyscus maniculatus*), California mice (*Peromyscus californicus*), and non-native eastern grey squirrels (*Sciurus carolinensis*). Common reptiles including the western fence lizard (*Sceloporus occidentalis*) and northern Pacific rattle snake (*Crotalus oreganus oreganus*) may also occur in woody debris, and rocky outcrops within this habitat type. Roosting bats such as California myotis (*Myotis californicus*) may also day-roost within cavities, crevices, exfoliating bark, and accumulated tree bark. Native bees such as the yellow-faced bumble bee (*Bombus vosnesenskii*) may also nest and forage within this habitat.

Developed

The developed landcover type includes all areas where existing structures and driveways associated with those structures are located (Figure 2-3, Photos 3 and 4). This landcover type is located on the southern, central, and northern portions of the site, and consists of five abandoned structures (i.e., upper house, upper cottage, lower house, lower west garage, lower east garage), gazebo, and paved driveways. Sparse vegetation is associated with this landcover type including non-native grasses including ripgut brome and seaside barley; herbaceous species such as sow thistle and Bermuda buttercup, shrubs such French broom, mock orange (*Pittosporum tobira*), and potato tree (*Solanum* sp.), and trees including Peruvian pepper (*Schinus molle*) and coast live oak are growing within and adjacent to these areas.

Wildlife most often associated with developed areas include those urban-adapted species that are tolerant of periodic human disturbance. Many of the species that occupy the ornamental woodland also inhabit the developed areas. Avian species such as the house finch (*Haemorhous mexicanus*), dark-eyed junco, and mourning dove will nest on and around human-made structures, and these species were all observed during the site visit. Several old black phoebe nests were observed during the site visit. Roosting bats, including the Townsend's big-eared bat (*Corynorhinus townsendii*) and pallid bat (*Antrozous palllidus*) occasionally roost inside vacant structures. However, an examination of the interior and exterior of the buildings that were previously on site failed to detect these species or any evidence of bat activity (e.g., guano or urine staining), indicating that bats have not recently roosted, and are not currently roosting in these buildings. Common mammals such as the striped skunk (*Mephitis mephitis*) and brown rat (*Rattus norvegicus*) may also be present in this landcover type but were not observed during the survey.

Special-Status Species

For the purposes of this CEQA document, special-status species include those plants and animals listed, proposed for listing or candidates for listing as threatened or endangered by the U.S. Fish and Wildlife Service (USFWS) or National Oceanic and Atmospheric Administration's National Marine Fisheries Service (NOAA Fisheries) under the Federal Endangered Species Act (FESA); those listed or proposed for listing as rare, threatened or endangered by the California Department of Fish and Wildlife (CDFW) under the California Endangered Species Act (CESA); animals designated as Fully Protected or Species of Special Concern by the CDFW; and plants listed as Rank 1A, 1B, 2, 3 and 4 of the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants.

Special-Status Plants

According to a review of the California Natural Diversity Database (CNDDB, 2022) and the CNPS Inventory of Rare and Endangered Plants (CNPS, 2022), 94 special-status plant species occur in the project vicinity. However, based on an analysis of the documented habitat requirements, occurrence records associated with these species, and existing conditions on the site, all species were determined to be absent from the project site due to at least one of the following reasons: (1) lack of suitable habitat types; (2) absence of specific microhabitat or edaphic requirements, such as serpentine soils; (3) the species is presumed extirpated or is not expected to occur in the project vicinity due to range; and/or (4) the site is too disturbed to be expected to support the species.

Special-Status Animals

According to a review of the California Natural Diversity Database (CNDDB, 2022), 71 special-status animal species are known to occur in the project vicinity, particularly near the San Francisco Bay shore approximately 1.5 miles east of the project site, and the Crystal Springs Reservoir/Emerald Hills area approximately 3.5 miles west of the site. However, a majority of these species require specialized habitats such as open grassland with burrow habitat, salt marsh, wetland, stream, riparian, serpentine-adapted vegetation, or chaparral habitat, none of which are not present on the project site. Additionally, there is no USFWS-designated critical habitat on or near the project site (USFWS, 2022).

Based on the landcover types and habitats that are present, and local occurrence records there is a moderate to high potential for four special-status species to occur on the site including the white-tailed kite (*Elanus leucurus*), monarch butterfly (*Danaus plexippus*), Townsend's big-eared bat (*Corynorhinus townsendii*), pallid bat (*Antrozous pallidus*), and San Francisco dusky-footed woodrat (*Neotoma fuscipes annectens*). Additionally, nesting birds, which are protected by the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code; and roosting bats, which are protected by the California Fish and Game Code have a moderate to high potential to occur on the site. These species are discussed below.

Monarch Butterfly

The monarch butterfly, a candidate for listing under FESA, is a federal candidate for listing under the Federal ESA. Adults forage on a wide variety of flowers for nectar and occur in a variety of habitats, but egg-laying and larval development occurs on milkweeds (*Aesclepias* sp.), which are more limited in distribution. The monarch butterfly typically roosts on the branches and leaves of trees such as Monterey pine (*Pinus radiata*), Monterey cypress (*Cupressus maculata*), and eucalyptus (*Eucalyptus* sp.) in areas where they receive appropriate sun exposure and thermal buffering. In the Bay Area, monarch butterflies overwinter from approximately September 15 to March 15 along the San Mateo County coast and in Alameda County, approximately over 10 miles west and east of the site (CNDDB 2022, Xerces Society 2022). Additionally, monarch butterflies are occasionally observed in suitable habitat throughout the project vicinity (CNDDB 2022, iNaturalist 2022, Rios 2017) and may occasionally forage and roost on the site during their fall and spring migrations. However, none were observed on the site during the field survey. Furthermore, while the site supports a mixed woodland with several mature blue gum trees, typically used by the species, the trees are not densely clustered such that they would provide suitable microclimate conditions (e.g., protection from wind, rain, heat) necessary overwintering. Thus, monarch butterflies are not expected to overwinter or occur in large numbers, or otherwise make substantial use of the project site.

White-tailed Kite

The white-tailed kite, a California fully protected species, is a year-round resident that nests in open habitats such as grasslands, agricultural fields, and oak savannah with abundant prey populations and suitable nesting substrates including snags and a variety of trees and shrub species. Nest substrates can range from small, isolated trees or shrubs to large trees in dense tree stands (Polite 1990, Dunk 1995). An abundant prey base, such as that of California vole (*Microtus californicus*) and house mouse (*Mus musculus*), is an important factor in the habitat quality for this species (Dunk and Cooper 1994). White-tailed kites are known to occur in the region and have been observed in the surrounding foothills within 0.5 mile from the project site (CNDDB 2022, Cornell Lab of Ornithology 2022). However, no kites or existing raptor nests were observed within or adjacent to the site during the survey. Small numbers of Botta's pocket gophers (i.e., gopher burrows) were observed during the site survey, but these gophers were not present in high enough densities to support a nesting pair of white-tailed kites. While trees on the site and adjacent to the site provide ostensibly suitable nesting habitat for white-tailed kites, and the site may support a small prey base, the site, nor open areas adjacent to the site are not large enough to support a nesting white-tailed kite pair. White-tailed kites may occasionally stopover on the site while on route to larger habitat patches, but they are not expected to nest on the site due to the small size of the site.

Townsend's Big-eared Bat and Pallid Bat

The Townsend's big-eared bat and pallid bat, both California Species of Special Concern, are rare residents of San Mateo County, primarily occurring in the rural western portion of the County. The Townsend's big-eared bat is an obligate cave-roosting species but will roost in open cave-like habitat such as mines, attics, barns, open rooms of abandoned structures, large basal hollows in redwood trees, and occasionally in cavernous area in bridges. The Townsend's big-eared bat is known to occur in the surrounding vicinity and is most frequently detected in undeveloped open space areas over 12 miles from the project site (CNDDB 2022). However, individual Townsend's big-eared bats have been detected in the region in undeveloped pockets surrounded by development. The closest such occurrences are approximately 3 miles south of the project site in an abandoned structure in the Emerald Hills neighborhood (MIG 2020), and approximately 5 miles to the north near Crystal Springs Road (iNaturalist 2022).

The pallid bat is most commonly found in oak savannah and in open dry, rocky habitats (Zeiner et al. 1990; Ferguson and Azerrad 2004). Within these habitats, pallid bats roost in crevices and

cavities in rocky outcroppings, buildings, and bridges; and in the crevices, hollows, and exfoliating bark of trees. Four occurrences of the pallid bat are documented in the site vicinity, one within one mile of the project site; however, these occurrences are more than 60 years old (CNDDB 2022) and no longer extant. This species likely occurs infrequently in open habitats of the Santa Cruz Mountains to the west, but it is not expected to occur in the surrounding lowland areas of the project region due to the lack of open habitat. Nonetheless, individuals that occur in more remote habitat to the west may occasionally migrate through the area and roost in trees or within the structures on the site.

The abandoned buildings that were previously on the site provided potentially suitable roosting habitat for individual (non-breeding) Townsend's big-eared bat and pallid bat; however, no bats or evidence of recent bat use (e.g., guano, urine staining) were observed in these structures during the site visit (MIG 2022). Subsequent to the bat survey the abandoned structures were demolished under a separate permitting process with the City. Likewise, exfoliating bark and crevices on several trees on the site may also support pallid bat individuals. Due to the presence of suitable crevice and cave-like roosting habitat, there is a moderate potential for Townsend's big-eared bat and pallid bat to occur on the site.

San Francisco Dusky-footed Woodrat

The San Francisco dusky-footed woodrat, a California Species of Special Concern, occurs in a variety of woodland and scrub habitats throughout the San Francisco Bay Area and the adjacent Central Coast Range, south to the Pajaro River in Monterey County (Hall 1981, Zeiner et al. 1990b). It prefers riparian and oak woodland forests with dense understory cover, or thick chaparral habitat (Lee and Tietje 2005). Dusky-footed woodrats build large, complex nests of sticks and other woody debris, which may be maintained by a series of occupants for several years (Carraway and Verts 1991). Woodrats also construct their nests in human-made structures, and can nest in electrical boxes, crawl spaces, wooden pallets, and debris piles. Woodrat nest densities increase with canopy density and with the presence of poison oak (Carraway and Verts 1991).

Ornamental woodland and human-made structures on the site provide suitable habitat for the San Francisco dusky-footed woodrat; however, no stick nests were observed during the field reconnaissance survey. This may be attributed to the lack of dense understory cover and woody debris across much of the site. Large rodent fecal pellets were observed in each of the structures that were on site, which may be attributed to the dusky-footed woodrat as this species will occupy crawl spaces and debris piles within human-made structures. However, the sign may also be attributed to the non-native brown rat (*Rattus norvegicus*). That said, there are several patches of dense vegetation on the southwestern portion of the site and adjacent to the locations of the two recently demolished residences that provide suitable cover, structure, and foraging habitat for woodrat. While no woodrat nests were observed during the field survey, there is a moderate potential that this species could colonize the project site.

3.4.2 Discussion

Would the project:

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 Wildlife or U.S. Fish and Wildlife Service?

Less than Significant with Mitigation Incorporated. As described in the Existing Conditions/Setting (see special-status species) no special-status plant species are expected to occur on the site. There is potentially suitable habitat for five special-status species including the monarch butterfly, white-tailed kite, Townsend's big-eared bat, pallid bat, San Francisco dusky-footed woodrat, but only the latter three species have potential to roost (bats) or breed on the

site. Therefore, development of the site could result in significant impacts on these species. Mitigation Measure BIO-1 and Mitigation Measure BIO-2 would reduce potential project-related impacts to special-status bats and the dusky-footed woodrat to less than significant. Nesting birds and common roosting bats may also be impacted by the project. Mitigation Measure BIO-3 and Mitigation Measure BIO-4 would reduce potential project-related impacts to nesting birds and roosting bats to less than significant.

Impact BIO-1. Project activities may result in injury or mortality of Townsend's big-eared bat and pallid bat individuals due to tree removal.

Mitigation Measure BIO-1 The following measures shall be implemented to protect Townsend's big-eared bat and pallid bat during tree removal:

a) Tree removal shall occur during the time of year when bats are most active and detectible (i.e., March 1 – October 15) and will avoid the fall/winter bat torpor period (October 16 – February 28) when bats may be inactive and difficult to detect.

b) No more than 14 days prior to tree removal, a qualified biologist with demonstrated experience with bat ecology shall conduct a pre-activity survey for roosting bats. During the survey the biologist shall look for evidence of bat use in trees. If roosting bats or evidence of use is observed (e.g., guano, urine staining), or if high-quality roost sites are present in areas where evidence of bat use might not be detectable (such as a tree cavity), an evening visual survey utilizing bat acoustic detectors shall be conducted to determine if roosting bats are present and to identify their specific locations. The results of the survey(s) shall be documented.

c) If roosting bats are not detected, project work can proceed as planned. If project activities are not initiated within 14 days of survey completion, the surveys shall be repeated.

d) In the event that a maternity colony is detected, Mitigation Measure BIO-4B shall be implemented to reduce impacts on maternity colonies of Townsend's big-eared bat and pallid bat species to less than significant.

Effectiveness: These measures would minimize impacts on bat species.

Implementation: Applicant or its Contractor.

Timing: Year-round, no more than 48 hours in advance of the start of project construction activities.

Monitoring: The biologist shall prepare a written record of survey results and implementation of any avoidance/minimization measures to be kept on file at the City of San Carlos Planning Department office. The biologist shall coordinate with CDFW to determine the appropriate mitigation and monitoring if a roost is found.

Impact BIO-2: Project activities may result in injury or mortality of dusky-footed woodrats due to project construction including vegetation removal, grading, vehicle traffic, equipment use, and worker foot traffic, particularly if disturbance occurs when woodrats are taking refuge in the existing structures or areas of dense vegetation. Additionally, project-related disturbances may cause woodrats to flee their nests, exposing them to a greater risk of predation. Such impacts would be temporary in nature, occurring only during construction activities.

Mitigation Measure BIO-2. No more than 30 days prior to initial ground disturbance, a pre-construction survey for woodrat nests will be conducted within the project site by a qualified biologist. The survey will consist of walking the project limits and all areas within the project site looking for woodrat nests. If active woodrat nests are observed during the pre-construction survey, they shall be avoided as feasible, and a disturbance-free buffer shall be maintained

around the nest. This buffer will be determined by a qualified biologist. Additionally, environmentally sensitive area (ESA) fencing will be installed around active woodrat nests to keep workers, construction equipment, and construction materials out of the area where the nests are located. If active woodrat nests are found within the project boundary during the preconstruction survey and avoidance is not feasible, the woodrats will be evicted from their nests prior to the removal of the nests and onset of ground-disturbing activities to avoid injury or mortality of the woodrats. A qualified biologist will disturb the woodrat nest to the degree that all woodrats leave the nest and seek refuge outside of the project activity area. Subsequently, the nest sticks will be relocated; these materials will be piled at the base of a nearby tree or shrub outside of the activity area. The spacing between relocated nests will not be less than 20 ft, unless a qualified biologist has determined that the habitat can support higher densities of nests.

Effectiveness: These measures would minimize long-term impacts on San Francisco dusky-footed woodrat.

Implementation: Applicant or its Contractor.

Timing: Pre-construction survey no more than 30 days in advance of the start of construction.

Monitoring: The biologist shall prepare a written record of survey results and relocation if implemented.

Impact BIO-3: Construction disturbance during the avian breeding season (February 1 through August 31, for the species expected in this urban location) could result in the incidental loss of eggs or nestlings, either directly through the destruction or disturbance of active nests or indirectly by causing the abandonment of nests. Tree removal at the site could cause destruction of nests, and noise and construction activity could also impact foraging behavior, potentially resulting in the abandonment of nest sites.

Mitigation Measure BIO-3. Nesting Bird Surveys. To ensure that project activities comply with the Migratory Bird Treaty Act and California Fish and Game Code, the following measures shall be implemented:

a) To the extent feasible, construction activities should be scheduled to avoid the avian nesting season. If construction activities are scheduled to take place outside the nesting season, all impacts to nesting birds protected under the MBTA and California Fish and Game Code will be avoided. The nesting season for most birds in San Carlos extends from February 1 through August 31.

b) If it is not possible to schedule construction activities between September 1 and January 31, then pre-construction surveys for nesting birds should be conducted by a qualified biologist to ensure that no nests will be disturbed during project implementation. These surveys shall be conducted no more than 7 days prior to the initiation of construction activities. During this survey, a qualified biologist will inspect all trees and other potential nesting habitats (e.g., trees, shrubs, and structures) in and immediately adjacent to the impact areas for nests. If an active nest is found sufficiently close to work areas to be disturbed by these activities, the biologist will determine the extent of a construction-free buffer zone to be established around the nest (typically 300 ft for raptors and 100 ft for other species, typically recommended by the California Department of Fish and Wildlife), to ensure that no nests of species protected by the Migratory Bird Treaty Act and California Fish and Game Code will be disturbed during project implementation.

c) If construction activities will not be initiated until after the start of the nesting season, all potential nesting substrates (e.g., bushes, trees, grasses, and other vegetation) that are scheduled to be removed by the Project should be removed prior to the start of the

nesting season (e.g., prior to February 1). This will reduce the initiation of nests in the vegetation and reduce potential delays of the Project due to the presence of active nests within these substrates.

Effectiveness: These measures would minimize impacts on bird species.

Implementation: Applicant or its Contractor.

Timing: February 1 through August 31, no more than five days in advance of the start of project construction.

Monitoring: The biologist shall prepare a written record of survey results and implementation of any avoidance/minimization measures to be kept on file at the City of San Carlos Planning Department office. The biologist shall monitor any active nests to determine when young have matured sufficiently to have fledged.

Impact BIO-4: Tree removal could impact non-special-status roosting bats protected by the California Fish and Game Code**.**

Mitigation Measure BIO-4A. Implement Mitigation Measure BIO-1 as above for special-status bats.

Mitigation Measure BIO-4B. If work is planned to occur during the bat maternity season (April 1 – August 31), and an active maternity colony is detected in trees, disturbance of active maternity roost sites will be scheduled to take place outside the maternity season (i.e., after August 31 when young are able to fly and leave the roost) and a disturbance-free buffer zone (determined by a qualified bat biologist) will be implemented until the end of the bat maternity season (August 31). Because bats may still occupy the roost site after August 31, a qualified biologist shall inspect the roost to determine if bats have vacated to the roost or are still present. If bats are still present, they should be humane deterred or excluded under the direction of a qualified biologist.

For trees planned for removal, or if presence is assumed, a two-step tree removal process shall be utilized under the supervision of the qualified biologist. Two-step tree removal involves removal of all branches of the tree that do not provide roosting habitat on the first day, and then removing the remaining portion of the tree on the following day (day 2). If deterrence and/or eviction is performed, the results of these activities shall be documented.

Mitigation Measure BIO-4C. If tree removal is planned to occur outside the bat maternity season and roosting bats are detected, or individual/non-breeding bats are detected during the maternity season, the individual(s) will be humanely deterred or excluded when bats are most active (March 1 – October 15).

Effectiveness: These measures would minimize impacts on bat species.

Implementation: Applicant or its Contractor

Timing: Prior to start of project construction activities.

Monitoring: The biologist shall prepare a written record of survey results and implementation of any avoidance/minimization measures to be kept on file at the City of San Carlos Planning Department office. The biologist shall coordinate with CDFW to determine the appropriate mitigation and monitoring if a roost is found.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?

No Impact. There is no riparian habitat or other sensitive natural communities on the project site; thus, the project will not have an adverse effect on any riparian habitat or other sensitive natural community.

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. There are no state or federally protected wetlands on or near the project site. Thus, the project will have no impacts on wetlands.

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?

Wildlife Movement – No Impact. Although portions of the site contain existing development, the site is largely undeveloped and is dominated by non-native trees and other vegetation. As such, the project site has some value to urban-adapted wildlife, as over 20 wildlife species, predominantly native bird species, were observed on the site during the field reconnaissance survey. However, because a majority of the site is surrounded by dense residential and urban development, there are no riparian corridors on or adjacent to the site, and the site is not connected to any larger natural areas or potential movement corridors, development of the site would not interfere with the movement of any native resident or migratory species. Arguello Park north of the site offers small local movement opportunities for urban-adapted birds and other terrestrial species that occur in the area. These urban-adapted species would continue to be able to make movements after the project is developed. Thus, the project would not interfere with established migratory corridors.

Wildlife Nursery Sites – Less than Significant with Mitigation (See Section 3.4.2a above).

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less than Significant Impact. The proposed project would remove 138 trees, including a combination of non-native Eucalyptus trees, native oak trees, and several miscellaneous species (e.g., elm, acacia, olive). The San Carlos Municipal Code (City of San Carlos 2022) sets forth regulations for “protected trees” (Sections 18.18.070 and 18.41.020) which are defined as “heritage” or “significant” trees. Section 18.18.070 (B) Protected Trees of the San Carlos Municipal Code states no protected trees can be removed, pruned (removal of more than 25% of the crown or existing foliage, or more than 25% of the root system), or otherwise materially altered without permit approval from the Community Development Director. Per the Municipal Code, Eucalyptus trees shall not be classified as significant or heritage trees regardless of size. Additionally, many native trees including oaks are classified as Heritage trees species. Only those oak trees measuring 9” in diameter as measured at fifty-four inches above natural grade (i.e., diameter at breast height (DBH)) or greater are classified as Protected Trees. According to the project arborist report, a number of native oak trees that would be removed by the project measure over 9 inches DBH (Kielty Arborist Services 2022). As such, these native oak trees can be classified as Protected Trees and the removal of these trees requires a Protected Tree Removal Permit per the Municipal Code. Upon approval of a Protected Tree Removal Permit for the project and project compliance with Protected Tree Removal Permit requirements, which include but are not limited to replacement tree requirements, the removal of the on-site native oak trees would not conflict with the City’s Protected Tree Ordinance. This impact would be less than significant.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The project site is not located within an area covered by an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. Therefore, the project would not conflict with any such plans.

3.4.3 References

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3.5 CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant 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 pursuant to §15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☒	☐	☐

3.5.1 Environmental Setting

The first known human inhabitants of the San Carlos area were often referred to by the name of their linguistic group, Costanoan (City of San Carlos 2022). The Ohlone occupied a large territory in the South Bay, including the project site. This ethnographic group settled in large permanent groupings of households, forming large villages and tribal territories known as 'tribelets.' More specifically, a concentration of Ohlone is believed to have lived in the Carmelita area of San Carlos, which lies in part of the city's Planning Area. Native American archaeological sites tend to be located near waterways, as well as along ridge tops, mid-slope hill terraces, alluvial flats, the base of hills, and where two vegetation communities meet. San Francisco Peninsula's proximity to both bay and marine resources led to the rapid rise in Native American tribe and tribelet populations. Due to urbanization in San Carlos and San Mateo County, archaeological data are largely missing. However, prehistoric archeological deposits have been recorded near the banks of the Pulgas Creek consisting of mammal bone and chert flakes. A midden site on the banks of the Pulgas Creek was recorded in 1990 and consisted of stone flakes and a possible hammerstone. A majority of this site was destroyed during the construction of San Carlos Avenue and nearby residential development.

The National Register of Historic Places includes buildings at least 50 years old; buildings under 50 years old may also be included in the National Register if they are deemed to be of exceptional importance. The Office of Historic Preservation (OHP) includes buildings, structures, and objects 45 years or older on the California Register. The National and California Register contain two buildings of historic significance in the City of San Carlos: the Nathanial Brittan Party House and the Southern Pacific Depot. Neither building is located near the project site. The City of San Carlos maintains a listing of 52 properties that are of historical significance known as the Historical Resources Inventory. No resources listed on the City's Historical Resources Inventory are within the project site.

3.5.2 Discussion

Would the project:

a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

No Impact. The types of cultural resources that meet the definition of historical resources under Public Resources Code Section 21084.146 generally consist of districts, sites, buildings, structures, and objects that are significant for their traditional, cultural, and/or historical associations. Under CEQA, both prehistoric and historic-period archaeological sites may qualify

based on historical associations. The project site was previously occupied by two single-family residences and associated structures. However, these residences and structures were determined not be historical resources (Archaeological Resource Management 2022a and 2022b) and recently demolished under a separate action in advance of the project. As such, there are no buildings or structures currently located onsite. No impact would occur.

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

Less than Significant Impact with Mitigation Incorporated. A Sacred Lands File (SLF) record search with the Native American Heritage Commission (NAHC) was conducted on March 17, 2022 (NAHC 2022). The SLF records search results were negative, meaning there is no site-specific information in the SLF. The absence of specific site information in the SLF does not indicate the absence of cultural resources in the project area. Native American tribes who may have knowledge of cultural resources in the project area were contacted on March 6, 2022. To date, no Native American tribal representatives have responded to the project outreach to tribal contacts. A California Historical Resources Information System (CHRIS) search with the Northwest Information Center (NWIC) was conducted on March 2, 2022 (NWIC 2022). The CHRIS search results indicate there are no known cultural resources on or within ¼-mile of the project site. There are no records of cultural resources reports within the project area. Two cultural resources reports (S-029495 & S-037535) were previously completed for locations within ¼-mile of the project area. As such, there are no known cultural resources on the project site.

While no prehistoric or historic resources including ethnographic villages or camps have been discovered or recorded at or near the project site to date, it is possible that unknown archaeological deposits associated with historic periods of San Mateo County history or unrecorded Native American prehistoric archaeological sites exist in the project site, buried under soils. If such archaeological deposits meet the definition of an archaeological resource under Public Resources Code Section 21084.1 and are damaged or destroyed by ground-disturbing construction activities (e.g., site preparation, grading, excavation, and trenching for utilities) associated with development allowed under the proposed project, the ability of the deposits to convey their significance, either as containing information about prehistory or history, or as possessing traditional or cultural significance to Native American or other descendant communities, would be materially impaired.

Several existing regulations would help to ensure that development activities allowed under the proposed project do not cause a substantial adverse change. The San Carlos General Plan includes policies that would address impacts to pre-contact archaeological deposits. Land Use Element Policy 12.5 would provide for the treatment of any human remains discovered during implementation of public and private projects within the City and ensure that they fully comply with the California Native American Graves Protection and Repatriation Act and other appropriate laws. To ensure compliance with regulations, the project would implement Mitigation Measure CUL-1 to address potential impacts to undiscovered archeological resources that may be unearthed during earthmoving activities associated with the proposed project.

Impact CUL-1: Project construction may unearth or disturb previously unidentified buried archaeological resources during project construction.

Mitigation Measure CUL-1: Protection of Archaeological Resources. In the event archaeological resources are unearthed during ground-disturbing activities, all ground-disturbing activities within 100 feet of the find shall be halted so that the find can be evaluated. Ground moving activities shall not be allowed to continue until a qualified archaeologist has examined the newly discovered artifact(s) and has evaluated the area of the find.

All archaeological resources unearthed by project construction activities shall be evaluated by a qualified professional archaeologist, who meets the U.S. Secretary of the Interior's Professional Qualifications and Standards.

All Native American artifacts (tribal finds) shall be considered as a significant Tribal Cultural Resource, pursuant to PRC 21074 until the lead agency has enough evidence to make a determination of significance.

The City shall coordinate with the archaeologist to develop an appropriate treatment plan for the resources. The plan may include implementation of archaeological data recovery excavations to address treatment of the resource along with subsequent laboratory processing and analysis. If appropriate, the archaeologist may introduce archaeological monitoring on all or part of the site. An archaeological report will be written detailing all archaeological finds and submitted to the City and the Northwest Information Center.

Effectiveness: This measure would minimize and/or avoid impacts on undetected archaeological resources to less than significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event cultural resources are discovered.

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. An archaeological report, if appropriate, will be written detailing all archaeological finds and submitted to the City and the Northwest Information Center.

c) Disturb any human remains, including those interred outside of dedicated cemeteries?

Less than Significant Impact with Mitigation Incorporated. Human remains associated with pre-contact archaeological deposits may exist in the project site, as previously unrecorded human remains are sometimes encountered during development projects. The proposed project would include new construction, and the associated ground-disturbing activities would have the potential to impact human remains. Descendant communities may ascribe religious or cultural significance to such remains and may view their disturbance as an immitigable impact.

The City would implement Mitigation Measure CUL-2 to reduce potential impacts should human remains be unearthed during earthmoving activities associated with the proposed project.

Impact CUL-2: Project construction, particularly excavation for building foundations and development of the emergency access road, may disturb human remains during project construction.

Mitigation Measure CUL-2: Protection of Human Remains. If human remains are unearthed during ground-disturbing activities, Section 7050.5(b) of the California Health and Safety code will be implemented. Section 7050.5(b) states:

> In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of

the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

The County Coroner, upon recognizing the remains as being of Native American origin, is responsible to contact the NAHC within 24 hours. The Commission has various powers and duties, including the appointment of a Most Likely Descendant (MLD) to the Project. The MLD, or in lieu of the MLD, the NAHC, has the responsibility to provide guidance as to the ultimate disposition of any Native American remains.

Effectiveness: This measure would reduce impacts on previously unknown human remains to less than significant levels.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event human remains are discovered.

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of cultural resource mitigation. The County Coroner will detail the findings in a coroner's report.

3.5.3 References

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3.6 ENERGY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

3.6.1 Environmental Setting

Energy consumption is closely tied to the issues of air quality and greenhouse gas (GHG) emissions, as the burning of fossil fuels and natural gas for energy has a negative impact on both, and petroleum and natural gas currently supply most of the energy consumed in California.

In general, California's per capita energy consumption is relatively low, in part due to mild weather that reduces energy demand for heating and cooling, and in part due to the government's proactive energy-efficiency programs and standards. According to the California Energy Commission, Californians consumed about 279,510 gigawatt hours (GWh) of electricity and 12,331 million therms of natural gas in 2020 (CEC 2021a and CEC 2021b). The CEC estimates that by 2030, California's electricity consumption will reach between 326,026 GWh and 354,209 GWh with an annual growth rate of 0.99 to 1.59 percent (CEC 2017), and natural gas consumption is expected to reach between 13,207 million and 14,190 million BTU with an annual growth rate of 0.25 to 0.77 percent (CEC 2017).

In 2020, total electricity use in San Mateo County was 4,168 million kilowatt hours (kWh), including 1,652 million kWh of consumption for residential land uses (CEC 2022a). Natural gas consumption was 200 million therms in 2020, including 118 million therms from residential uses (CEC 2022b).

Energy conservation refers to efforts made to reduce energy consumption to preserve resources for the future and reduce pollution. It may involve diversifying energy sources to include renewable energy, such as solar power, wind power, wave power, geothermal power, and tidal power, as well as the adoption of technologies that improve energy efficiency and adoption of green building practices. Energy conservation can be achieved through increases in efficiency in conjunction with decreased energy consumption and/or reduced consumption from conventional energy sources.

3.6.2 Regulatory Setting

Since increased energy efficiency is closely tied to the State's efforts to reduce GHG emissions and address global climate change, the regulations, policies, and action plans aimed at reducing GHG emissions also promote increased energy efficiency and the transition to renewable energy sources. The U.S. EPA and the State address climate change through numerous pieces of legislation, regulations, planning, policy-making, education, and implementation programs aimed at reducing energy consumption and the production of GHG.

CARB Low Carbon Fuel Standard Regulation

CARB initially approved the Low Carbon Fuel Standard (LCFS) regulation in 2009, identifying it as one of the nine discrete early action measures in its original 2008 Scoping Plan to reduce California's GHG emissions. Originally, the LCFS regulation required at least a 10% percent reduction in the carbon intensity of California's transportation fuels by 2020 (compared to a 2010 baseline). On September 27, 2018, CARB approved changes to the LCFS regulation that require a 20% reduction in carbon intensity by 2030. These regulatory changes exceed the assumption in CARB's 2017 Climate Change Scoping Plan, which targeted an 18% reduction in transportation fuel carbon intensity by 2030 as one of the primary measures for achieving the state's GHG 2030 target.

Renewable Portfolio Standard Program

In 2002, California established its Renewables Portfolio Standard (RPS) Program, with the goal of increasing the percentage of renewable energy in the state's electricity mix to 20 percent of retail sales by 2017. The *2003 Integrated Energy Policy Report* recommended accelerating that goal to 20 percent by 2010, and the *2004 Energy Report Update* further recommended increasing the target to 33 percent by 2020. The state's *Energy Action Plan* also supported this goal. In 2006 under Senate Bill 107, California's 20 percent by 2010 RPS goal was codified. The legislation required retail sellers of electricity to increase renewable energy purchases by at least one percent each year with a target of 20 percent renewables by 2010. Publicly owned utilities set their own RPS goals, recognizing the intent of the legislature to attain the 20 percent by 2010 target.

On November 17, 2008, Governor Schwarzenegger signed Executive Order S-14-08 requiring "[a]ll retail sellers of electricity shall serve 33 percent of their load with renewable energy by 2020." The following year, Executive Order S-21-09 directed the California Air Resources Board, under its AB 32 authority, to enact regulations to achieve the goal of 33 percent renewables by 2020.

In October 2015, Governor Brown signed Senate Bill 350 to codify ambitious climate and clean energy goals. One key provision of SB 350 is for retail sellers and publicly owned utilities to procure "half of the state's electricity from renewable sources by 2030."

The State's RPS program was further strengthened by the passage of SB 100 in 2018. SB 100 revised the State's RPS Program to require retail sellers of electricity to serve 50% and 60% of the total kilowatt-hours sold to retail end-use customers be served by renewable energy sources by 2026 and 2030, respectively, and requires 100% of all electricity supplied come from renewable sources by 2045.

As part of the package of bills signed into law by Governor Newsom on September 16, 2022, also referred to as the "California Climate Commitment" (see below), the State's RPS Program was strengthened once again by adding additional interim clean electricity targets. Specifically, SB 1020 established clean electricity targets of 90% by 2035 and 95% by 2040 with the intent of advancing the state's trajectory to the existing 100% clean electricity retail sales by 2045 (SB 100).

California Climate Commitment

In September 2022, Governor Gavin Newsom signed a package of bills into law known as the "California Climate Commitment." While primarily related to reducing GHG emissions, advancing the State's carbon neutrality goals, and further strengthening the State's Renewable Energy Portfolio Standards, several of these bills have the co-benefit of addressing energy resources from the transportation sector. Specifically, AB 2061, AB 2075, AB 2622, SB 1291 all relate to improving and expanding electric vehicle/alternate fuel vehicle infrastructure, which in turn will reduce fossil fuel usage. AB 2446, also part of the "California Climate Commitment"

bills, addresses use of low-carbon construction materials in future development as well as water and energy efficiency requirements.

Title 24 Energy Standards and City of San Carlos Reach Codes

Part 11 of the Title 24 Building Standards Code is referred to as the California Green Building Standards Code (CALGreen Code). The CalGreen Code contains both mandatory and voluntary measures. The 2019 standards, focused on three key areas: proposing new requirements for installation of solar photovoltaics for newly constructed low-rise residential buildings, updating current ventilation and Indoor Air Quality (IAQ) requirements, and extending Title 24 Part 6 to apply to healthcare facilities. The 2019 Building Energy Efficiency Standards were approximately 53 percent more than the 2016 Title 24 Energy Standards for residential development. The 2022 standards, which were adopted in August 2021, go into effect January 1, 2023. The 2022 Building Energy Efficiency Standards focus on establishing or expanding standards for electric heat pumps, for single-family homes to be electric-ready, for solar photovoltaic system and battery storage, and for ventilation systems.

On January 25, 2021, the San Carlos City Council adopted Reach Codes, which expand upon the energy efficiency requirements contained in the CalGreen Code. The City's Reach Codes were approved by the CEC and went into effect on May 12, 2021 (San Carlos 2021).

San Carlos Climate Mitigation and Adaptation Plan

On September 27, 2021, San Carlos adopted the Climate Mitigation and Adaptation Plan (CMAP) to reduce GHG emissions. The CMAP has goals which include reducing energy use, transitioning to carbon-free energy sources, promoting energy resilience, promoting development which reduces VMT, and using low-carbon transportation. It identifies strategies and actions to reduce energy consumption.

3.6.3 Discussion

Would the project:

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less than Significant Impact. Construction activities associated with the proposed project would require the use of heavy-duty, off-road equipment and construction-related vehicle trips that would combust fuel, primarily diesel and gasoline. Heavy-duty construction equipment would be required to comply with CARB's airborne toxic control measures, which restrict heavy-duty diesel vehicle idling to five minutes. It is estimated that construction activities (i.e., over the entire duration of construction activities) would consume approximately 63,988 gallons of diesel fuel to power on-site, off-road heavy-duty construction equipment. Worker, vendor, and haul truck trips during construction activities are anticipated to consume 11,941 gallons of diesel, 31,053 gallons of gasoline, and 10,488 kWh of electricity. See Appendix B for fuel consumption calculations, which are based on the project's off-road construction equipment and phasing, a fuel consumption factor contained in the CARB *Carl Moyer Program Guidelines (2017 Revisions),* and fuel consumption rates for on-road vehicles derived from EMFAC2021 V1.0.2 data. Petroleum and electricity use during construction would be temporary and needed to conduct development activities; therefore, it would not be wasteful or inefficient.

Once operational, the proposed project would provide nine new houses within the city, and the occupation of these residences would consume energy in the form of electricity for building processes (e.g., heating and cooling, lighting, etc.) and petroleum products (e.g., gasoline and diesel) for vehicle trips to and from the dwelling units by residents and visitors. The proposed project would comply with the City's Reach Code by being all electric.

As estimated in CalEEMod, the proposed project is estimated to consume approximately 70,397 kWh of electricity on an annual basis. Although the proposed project would increase energy demand at the site over the long term, it would do so in an efficient manner. For example, the proposed project would be designed to be all electric, consistent with the requirements of the City's Reach Code. The project would also provide at least 1 parking space per dwelling unit that is Level 2 EV ready, consistent with the City's Reach Code. The forms and quantity of energy the proposed project would consume are essential to successful and safe use of single-family homes. The project also provides the infrastructure to support the transition to EVs in the future. As such, the proposed project's energy consumption would not be wasteful, inefficient, or unnecessary. This impact would be less than significant.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No Impact. The proposed project would not conflict with nor obstruct a state or local plan adopted for the purposes of increasing the amount of renewable energy or energy efficiency. As discussed under response a), the proposed project would be constructed to meet and exceed the latest CalGreen Code standards (including having the single-family residences be of all-electric design), which would make them more energy efficient than many of the residential buildings currently in operation in the City. Furthermore, the proposed project would not conflict with the City's Climate Action Plan (CAP), since many of the actions in the CAP consist of items the City will pursue (see Section 3.8, Greenhouse Gas Emissions) and do not apply to the project. No impact would occur.

3.6.4 References

California Energy Commission (CEC) 2017. 2017 Integrated Energy Policy Report. 2017 IEPR Workshops, Notices and Documents. https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2017-integrated-energy-policy-report/2017-iepr

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City of San Carlos (San Carlos). 2021. Local Building Energy Standards. "Summary of City of San Carlos New Construction Requirements". February 26, 2021. Accessed May 24, 2021 at https://www.cityofsancarlos.org/Home/ShowDocument?id=6531.

_____. 2021. City of San Carlos Climate Mitigation and Adaptation Plan. Adopted September 27, 2021

3.7 GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? *Note: Refer to Division of Mines and Geology Special Publication 42.*	☐	☐	☐	☒
ii) Strong seismic ground shaking?	☐	☐	☒	☐
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☐	☒
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
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?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
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?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

Discussion and analysis in this section is informed by a geotechnical analysis that was prepared for the project titled, Geotechnical Engineering Study 308 & 310 Phelps Road Subdivision, 308 & 310 Phelps Road, San Carlos, California, dated June 19, 2020, and prepared by Earth Systems Pacific.

3.7.1 Environmental Setting

The project site and the surrounding parts of San Carlos are located on the San Francisco Peninsula, which is set within the larger Coast Ranges Geomorphic Province. This province is characterized by northwest-southeast trending mountain ranges that stretch from the Oregon border on the north to Point Conception on the south. In the San Francisco Bay area, most of the Coast Ranges are underlain by the tectonically complex, Jurassic- to Cretaceous-age

sedimentary and metamorphic bedrock of the Franciscan Complex. Based on geologic mapping by the US Geological Survey (USGS), the project site is underlain by Holocene-age coarse-grained alluvium (USGS 1993).

The closest active fault to the project site is the San Andreas Fault located approximately 3.2 miles southwest of the site (Earth Systems Pacific 2020, p. 6). The Hayward and Calaveras faults are located approximately 15.3 miles northeast and 20.2 miles northeast of the site, respectively. The nearest fault of the Southwest Santa Clara Fold and Thrust Belt is the Monte Vista-Shannon fault located approximately 9.6 miles to the south-southeast. The San Gregorio fault zone is located approximately 11.0 miles to the southwest.

The project site's topography is characterized as a southeast trending ridge with a swale to the east (Earth Systems Pacific 2020, p. 1). The site's elevation ranges from 310 feet above mean sea level (msl) in the northwest corner to approximately 165 feet above msl on the south end. Existing drainage conditions across the property can be generally characterized as sheet flow to the south towards Phelps Road (Lea & Braze Engineering 2020).

3.7.2 Discussion

Consistent with the California Supreme Court decision in *California Building Industry Association v. Bay Area Air Quality Management District* (62 Cal. 4th 369; 2015), the impact discussion presented below focuses on the project's effect on geology and soils rather than the effect of geologic hazards and site conditions upon the proposed project. The project is evaluated to determine whether it would create or exacerbate soil or geologic conditions identified in each of the above significance threshold criteria.

Would the project:

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other significant evidence of a known fault?

No Impact. The Alquist-Priolo Earthquake Fault Zoning Act regulates development in California near known active faults due to hazards associated with surface fault ruptures. There are no known active faults that traverse the project site, and the site is not within an Alquist-Priolo zone (USGS 2004). No impact would occur.

ii) Strong seismic ground shaking?

Less Than Significant Impact. The project site is located in the San Francisco Bay Area which is considered one of the most seismically active regions in the United States. Significant earthquakes have occurred in this area and strong to violent ground-shaking in the project area can be expected as a result of a major earthquake on one of the faults in the region. The 2007 Working Group on California Earthquake Probabilities estimated that the 30-year probability of a magnitude 6.7 or greater earthquake striking the San Francisco Bay area was 72 percent (WGCEP 2014).

The project would not create potential for or exacerbate existing conditions related to seismic ground shaking. The proposed residences would be designed and constructed in accordance with the current California Building Code requirements for seismic safety. This impact would be less than significant.

iii) Seismic-related ground failure, including liquefaction?

Less Than Significant Impact. Liquefaction occurs when loose, saturated sandy soils lose strength and flow like a liquid during earthquake shaking. Liquefaction can damage foundations,

disrupt utility service, and cause damage to roadways. The project site is not located in a State liquefaction hazard zone (Earth Systems Pacific 2020, p. 6).

The project would not create potential for or exacerbate existing conditions related to liquefaction. The proposed residences would be designed and constructed in accordance with the current California Building Code and a site-specific geotechnical report. This impact would be less than significant.

iv) Landslides?

Less than Significant. According to the project geotechnical analysis, the site is located within a hazard zone for seismically-induced landsliding on the State of California Seismic Hazard Zone Map for the San Mateo Quadrangle (Earth Systems Pacific 2020, p. 6). No landslides are mapped at the site on the landslide inventory map. A few landslides are mapped north and south of site in the nearby Quaternary sediments as well as a cluster of landslides mapped within the Franciscan Complex mélange (fm) northwest of the site within the San Andreas rift zone, but few landslides are mapped within the Franciscan Complex sandstone (KJc) unit that underlies the site.

While the site is subject to landslide hazards, the proposed project would not create potential for or exacerbate existing landslide hazard conditions because all road grading, project buildings, and drainage improvements would be constructed in accordance with the current California Building Code and the project geotechnical analysis, and the project proposes to extensively vegetate the site with grassland and landscaping, which would stabilize the slopes onsite.

Therefore, the proposed project would have less than significant impacts related to landslides.

b) Result in significant soil erosion or the loss of topsoil?

Less Than Significant Impact. The project would not cause erosion or loss of topsoil in the long term because the project site would be covered with the new residences, paved areas, and grassland and landscaping following construction. However, project construction would require grading and soil exposure that could result in temporary erosion and/or loss of topsoil if not controlled. The project would prepare and implement erosion control measures in accordance with the Erosion Control Plan (Figure 2-14) as part of conditions of approval for the proposed project and will comply with San Carlos Municipal Code Section 12.08.190 (Grading—Slopes and Banks). Compliance with these plans and regulations would prevent erosion and loss of topsoil during construction activities. This impact would be less than significant.

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?

Less Than Significant Impact. As described above, the topography at the project site is subject to landslide hazard due to significant slopes. However, adherence to the current California Building Code and the project's proposal to extensively vegetate the site would reduce the risk of the project increasing landslide hazards to less than significant levels.

Lateral spreading involves the lateral movement of a liquefied soil layer (and overlying layers) toward a free face and caused by seismic shaking. These lateral ground movements are often associated with a weakening or failure of an embankment or soil mass overlying a continuous layer of liquefied sand or weak soils. According to the project geotechnical analysis, the project site is not located in a State liquefaction hazard zone (Earth Systems Pacific 2020, p. 9). As lateral spreading is induced by liquefaction, it can therefore be assumed that the risk of lateral spreading on-site is low. Therefore, the project is not expected to have significant impacts related to lateral spreading.

Subsidence is the sinking of the Earth's surface in response to geologic or man-induced causes. The principal causes are mining, withdrawal of groundwater or oil, karst formations, oxidation of

organic soils, and thawing of permafrost. There is no mining, oil or groundwater extraction, karst formations, or other known risk factors for subsidence at the site. Therefore, the project is not expected to have significant impacts related to subsidence.

As stated previously, the project site is not susceptible to liquefaction. The project would not create potential for or exacerbate existing conditions related to liquefaction. The proposed project would be designed and constructed in accordance with the current California Building Code and the project geotechnical analysis. This impact would be less than significant.

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

No Impact. According to the project geotechnical analysis, portions of the project site contain soils with a moderately high shrinkage/swelling potential (Earth Systems Pacific 2020, p. 9). It is not anticipated that the foundation elements of the proposed residences will require underslab treatment; however, localized excavation areas may contain soils unsuitable for structural fill; these areas may need to be over-excavated and the excess soil hauled from the site. The proposed residences would be designed and constructed in accordance with the current California Building Code and the project geotechnical analysis, which would reduce risks to life and property due to the moderately high soil expansion potential in some portions of the site. This impact would be less than significant.

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

No Impact. The proposed project would not require the construction or use of septic tanks or alternative wastewater disposal systems. Wastewater generated by the proposed project would be conveyed to the existing municipal sanitary sewer system that is maintained and operated by the City of San Carlos Public Works Department. Therefore, the proposed project would have no impacts related to septic tanks or alternative wastewater disposal systems. No impact would occur.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less Than Significant Impact with Mitigation Incorporated. There are no known paleontological resources at the project site. A known geologic feature, a rock formation, is located in the northern portion of the project site. The project would not disturb this rock formation. The project could result in excavation and earth moving activities beyond prior depths of disturbance during excavation for the proposed residences. Due to possible excavation into previously undisturbed soils, the proposed project has the potential to encounter previously undisturbed paleontological resources. The implementation of Mitigation Measure GEO-1 would avoid impacts to any paleontological resources uncovered during project construction.

Impact GEO-1: Project construction could unearth paleontological resources, including fossils.

Mitigation Measure GEO-1: Protection of Paleontological Resources. If paleontological resources are discovered during construction, ground-disturbing activities shall halt immediately until a qualified paleontologist can assess the significance of the discovery. Depending on determinations made by the paleontologist, work may either be allowed to continue once the discovery has been recorded, or if recommended by the paleontologist, recovery of the resource may be required, in which ground-disturbing activity within the area of the find will be temporarily halted until the resource is recovered. If treatment and salvage is required, recommendations shall be consistent with Society of Vertebrate Paleontology guidelines and current professional standards.

Effectiveness: This measure would reduce impacts to paleontological resources to less than significant.

Implementation: The Applicant shall include these measures on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents. The Applicant and/or its contractor(s) shall implement this measure in the event any paleontological resources are discovered.

Timing: During all earth moving phases of project construction.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of paleontological mitigation. If paleontological resources are uncovered, a report shall be prepared by the qualified paleontologist describing the find and its deposition.

3.7.3 References

City of San Carlos. 1995. San Carlos Municipal Code Chapter 12.08 Grading and Excavations.

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United States Geological Survey (USGS). 1993. Geologic Map of the Palo Alto Quadrangle and Part of the Redwood Point 7-1/2' Quadrangle, San Mateo and Santa Clara Counties, California. By Earl H. Pampeyan. Miscellaneous Investigation Series Map I-2371.

_____2004. Earthquakes and Faults in the San Francisco Bay Area (1970-2003). By Benjamin M. Sleeter, James P. Calzia, Stephen R. Walter, Florence L. Wong, and George J. Saucedo. Scientific Investigations Map 2848.

Working Group on California Earthquake Probabilities (WGEP). 2014. The 3rd Uniform California Rupture Forecast (UCERF3). Accessed July 22, 2020 at: http://www.wgcep.org/

3.8 GREENHOUSE GAS EMISSIONS

3.8.1 Environmental Setting

Gases that trap heat in the atmosphere and affect regulation of the Earth's temperature are known as greenhouse gases (GHGs). Many chemical compounds found in the earth's atmosphere exhibit the GHG property. GHGs allow sunlight to enter the atmosphere freely. When sunlight strikes the earth's surface, it is either absorbed or reflected back toward space. Earth that has absorbed sunlight warms up and emits infrared radiation toward space. GHGs absorb this infrared radiation and "trap" the energy in the earth's atmosphere. Entrapment of too much infrared radiation produces an effect commonly referred to as "Global Warming", although the term "Global Climate Change" is preferred because effects are not just limited to higher global temperatures.

GHGs that contribute to climate regulation are a different type of pollutant than criteria or hazardous air pollutants because climate regulation is global in scale, both in terms of causes and effects. Some GHGs are emitted to the atmosphere naturally by biological and geological processes such as evaporation (water vapor), aerobic respiration (carbon dioxide), and off-gassing from low oxygen environments such as swamps or exposed permafrost (methane); however, GHG emissions from human activities such as fuel combustion (e.g., carbon dioxide) and refrigerants use (e.g., hydrofluorocarbons) significantly contribute to overall GHG concentrations in the atmosphere, climate regulation, and global climate change.

Human production of GHG has increased steadily since pre-industrial times (approximately pre-1880) and atmospheric carbon dioxide concentrations have increased from a pre-industrial value of 280 parts per million (ppm) in the early 1800's to 415 ppm in October 2022 (NOAA, 2022). The effects of increased GHG concentrations in the atmosphere include increasing temperature, shifts in precipitation patterns and amounts, reduced ice and snow cover, sea level rise, and acidification of oceans. These effects in turn will impact food and water supplies, infrastructure, ecosystems, and overall public health and welfare.

The 1997 United Nations' Kyoto Protocol international treaty set targets for reductions in emissions of four specific GHGs – carbon dioxide, methane, nitrous oxide, and sulfur hexafluoride – and two groups of gases – hydrofluorocarbons and perfluorocarbons. These GHGs are the primary GHGs emitted into the atmosphere by human activities. The six common GHGs are described below.

Carbon Dioxide (CO_2). CO_2 is released to the atmosphere when fossil fuels (oil, gasoline, diesel, natural gas, and coal), solid waste, and wood or wood products are burned.

Methane (CH_4). CH_4 is emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from the decomposition of organic waste in municipal solid waste landfills and the raising of livestock.

Nitrous oxide (N_2O). N_2O is emitted during agricultural and industrial activities, as well as during combustion of solid waste and fossil fuels.

Sulfur hexafluoride (SF_6). SF_6 is commonly used as an electrical insulator in high voltage electrical transmission and distribution equipment such as circuit breakers, substations, and transmission switchgear. Releases of SF_6 occur during maintenance and servicing as well as from leaks of electrical equipment.

Hydrofluorocarbons (HFCs) and perfluorocarbons (PFCs). HFCs and PFCs are generated in a variety of industrial processes.

GHG emissions from human activities contribute to overall GHG concentrations in the atmosphere and the corresponding effects of global climate change (e.g., rising temperatures, increased severe weather events such as drought and flooding). GHGs can remain in the

atmosphere long after they are emitted. The potential for a GHG to absorb and trap heat in the atmosphere is considered its global warming potential (GWP). The reference gas for measuring GWP is CO_2, which has a GWP of one. By comparison, CH_4 has a GWP of 28, which means that one molecule of CH_4 has 28 times the effect on global warming as one molecule of CO_2. Multiplying the estimated emissions for non-CO_2 GHGs by their GWP determines their carbon dioxide equivalent (CO_2e), which enables a project's combined global warming potential to be expressed in terms of mass CO_2 emissions. GHG emissions are often discussed in terms of Metric Tons of CO_2e, or $MTCO_2e$.

3.8.2 Regulatory Setting

California Global Warming Solutions Act (AB32) and Related Legislation

California Air Resources Board (CARB) is the lead agency for implementing Assembly Bill (AB) 32, the California Global Warming Solutions Act adopted by the Legislature in 2006. AB 32 requires the CARB to prepare a Scoping Plan containing the main strategies that will be used to achieve reductions in GHG emissions in California.

Executive Order B-30-15, 2030 Carbon Target and Adaptation, issued by Governor Brown in April 2015, sets a target of reducing GHG emissions by 40 percent below 1990 levels in 2030. By directing state agencies to take measures consistent with their existing authority to reduce GHG emissions, this order establishes coherence between the 2020 and 2050 GHG reduction goals set by AB 32 and seeks to align California with the scientifically established GHG emissions levels needed to limit global warming below two degrees Celsius.

To reinforce the goals established through Executive Order B-30-15, Governor Brown went on to sign SB 32 and AB 197 on September 8, 2016. SB-32 made the GHG reduction target to reduce GHG emissions by 40 percent below 1990 levels by 2030 a requirement as opposed to a goal. AB 197 gives the Legislature additional authority over CARB to ensure the most successful strategies for lowering emissions are implemented, and requires CARB to, "protect the state's most impacted and disadvantaged communities …[and] consider the social costs of the emissions of greenhouse gases."

In September 2022, Governor Gavin Newsom signed a package of bills into law known as the "California Climate Commitment." Included in the package of bills was AB 1279, which codified the State's goal of achieving statewide carbon neutrality as soon as possible, and no later than 2045, and establishes an 85% GHG emissions reduction target (below 1990 levels) by 2045, as part of that goal.

2017 Scoping Plan

On December 14, 2017, CARB adopted the second update to the Scoping Plan, the 2017 Climate Change Scoping Plan Update (2017 Scoping Plan Update; CARB 2017). The primary objective of the 2017 Scoping Plan Update is to identify the measures needed to achieve the mid-term GHG reduction target for 2030 (i.e., reduce emissions by 40 percent below 1990 levels by 2030), as established under Executive Order B-30-15 and SB 32. The 2017 Scoping Plan Update identifies an increasing need for coordination among state, regional, and local governments to achieve the GHG emissions reductions that can be gained from local land use planning and decisions. It notes emission reduction targets set by more than one hundred local jurisdictions in the state could result in emissions reductions of up to 45 $MMTCO_2E$ and 83 $MMTCO_2E$ by 2020 and 2050, respectively. To achieve these goals, the *2017 Scoping Plan Update* includes a recommended plan-level efficiency threshold of six metric tons or less per capita by 2030 and no more than two metric tons by 2050.

Plan Bay Area 2050

In January 2009, California SB 375 went into effect known as the Sustainable Communities and Climate Protection Act. The objective of SB 375 is to better integrate regional planning of

transportation, land use, and housing to reduce greenhouse gas emissions and other air pollutants. SB 375 tasks CARB to set GHG reduction targets for each of California's 18 regional Metropolitan Planning Organizations (MPOs). Each MPO is required to prepare a Sustainable Communities Strategy (SCS) as part of their Regional Transportation Plan (RTP). The SCS is a growth strategy in combination with transportation policies that will show how the MPO will meet its GHG reduction target. If the SCS cannot meet the reduction goal, an Alternative Planning Strategy may be adopted that meets the goal through alternative development, infrastructure, and transportation measures or policies.

Plan Bay Area was the integrated long-range transportation, land-use, and housing plan developed for the Bay Area pursuant to SB 375 that was adopted by the Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC) in 2013. An update to Plan Bay Area, titled Plan Bay Area 2040, was jointly approved by the ABAG Executive Board and by MTC in 2017. Plan Bay Area and Plan Bay Area 2040 identified Priority Development Areas, which were transit-oriented infill development opportunities in areas where future growth would not increase urban sprawl.

On October 1, 2021, MTC and AMBAG released *Plan Bay Area 2050* which focused on the elements of Housing, Economy, Transportation, and Environment. Across these elements, there were a total of 35 strategies, which are long-term policies or investments, and 80 implementation actions, which contain advocacy and legislation, initiatives, and planning and research. *Plan Bay Area 2050* projected that it would achieve a 20% reduction in GHG emissions from cars and light duty trucks by 2035 if all of its strategies were implemented, which would meet SB 375's GHG target.

2017 Clean Air Plan

As discussed in Section 3.3, Air Quality, the BAAQMD's 2017 Clean Air Plan is a multi-pollutant plan focused on protecting public health and the climate (BAAQMD 2017a). The 2017 Clean Air Plan lays the groundwork for a long-term effort to reduce Bay Area GHG emissions 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050, consistent with GHG reduction targets adopted by the state of California. As opposed to focusing solely on the nearer 2030 GHG reduction target, the 2017 Clean Air Plan makes a concerted effort to imagine and plan for a successful and sustainable Bay Area in the year 2050. In 2050, the Bay Area is envisioned as a region where:

- Energy efficient buildings are heated, cooled, and powered by renewable energy;
- The transportation network has been redeveloped with an emphasis on non-vehicular modes of transportation and mass-transit;
- The electricity grid is powered by 100 percent renewable energy; and
- Bay Area residents have adopted lower-carbon intensive lifestyles (e.g., purchasing low-carbon goods in addition to recycling and putting organic waste to productive use).

The *2017 Clean Air Plan* includes a comprehensive, multipollutant control strategy that is broken up into 85 distinct measures and categorized based on the same economic sector framework used by CARB for the AB 32 Scoping Plan Update.[3] The accumulation of all 85 control measures being implemented support the three overarching goals of the plan. These goals are:

- Attain all state and national air quality standards;

[3] The sectors included in the AB 32 Scoping Plan Update are: stationary (industrial) sources, transportation, energy, buildings, agriculture, natural and working lands, waste management, water, and super-GHG pollutants.

- Eliminate disparities among Bay Area communities in cancer health risk from toxic air contaminants; and
- Reduce Bay Area GHG Emissions to 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050.

San Carlos Climate Mitigation and Action Plan

In October 2009, the San Carlos adopted the City of San Carlos Climate Action Plan (2009 CAP). This plan established a 2005 baseline for GHG emissions and set a goal of reducing GHG emissions by 15% below 2005 levels by 2020 and included measures on energy, solid waste management, transportation, and land use. San Carlos updated the CAP in September 2021 by adopting the Climate Mitigation and Adaptation Plan (CMAP).

The CMAP set a goal of reducing GHG emissions 40% below 1990 levels by 2030 and 80 percent below 1990 levels by 2050, or equivalently of reducing GHG emissions 49 percent below 2005 levels by 2030 and 83 percent below 2005 levels by 2050. The CMAP consists of an emissions inventory, a climate change vulnerability assessment, 33 GHG reduction strategies, 12 climate adaptation strategies, and implementation and monitoring through 2050.

The GHG reduction strategies in the CMAP contain a combination of education and outreach programs, financial subsidies, and mandates across the sectors of energy, transportation and land use, off-road, waste, water and wastewater. These strategies aimed to accomplish the plan's goals of reducing energy use, transitioning to carbon-free energy sources, promoting energy resilience, promoting sustainable development that reduces VMT, transitioning to low-carbon transportation, supporting pollution-free outdoor equipment, becoming a zero-waste community, and reducing community-wide water use. The CMAP projected that with existing and planned government actions and the implementation of CMAP's strategies, San Carlos would meet the 2030 and 2050 emissions targets and be consistent with the state's AB 32 and SB 32 GHG reduction goals (San Carlos 2021).

3.8.3 Discussion

Global climate change is the result of GHG emissions worldwide; individual projects do not generate enough GHG emissions to influence global climate change. Thus, the analysis of GHG emissions is by nature a cumulative analysis focused on whether an individual project's contribution to global climate change is cumulatively considerable.

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

b) Conflict with an applicable policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant Impact (responses a – b). The proposed project would generate GHG emissions from both short-term construction and long-term operational activities. Construction activities would generate GHG emissions primarily from equipment fuel combustion as well as worker, vendor, and haul trips to and from the project site during demolition, site preparation, grading, building construction, paving, and architectural coating activities. Construction activities would cease to emit GHGs upon completion of project development. Operational emissions would continue year after year until the residential units cease to exist or have residents. Once operational, the proposed project would generate GHG emissions from the area, energy, and mobile sources described in Section 3.3.2, as well as electricity consumption, water use and wastewater generation, and solid waste generation.

On April 20, 2022, the BAAQMD adopted new thresholds of significance for GHG emissions that address emissions through the Year 2030. For project-level assessments, the BAAQMD's

updated GHG thresholds provide two options for assessing the significance of a project's GHG emissions, as presented below.

A. Projects must include, at a minimum, the following project design elements:
    1. Buildings
        a. The project will not include natural gas appliances or natural gas plumbing (in both residential and nonresidential development).
        b. The project will not result in any wasteful, inefficient, or unnecessary electrical usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.
    2. Transportation
        a. Achieve compliance with electric vehicle (EV) requirements in the most recently adopted version of CALGreen Tier 2.
        b. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor's Office of Planning and Research's Technical Advisory on Evaluating Transportation Impacts in CEQA:
            i. Residential projects: 15 percent below the existing VMT per capita
            ii. Office projects: 15 percent below the existing VMT per employee
            iii. Retail projects: no net increase in existing VMT
B. Be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

As identified above, the BAAQMD's updated GHG thresholds, which address GHG emissions through the 2030 and beyond, no longer include a quantitative, bright-line GHG emissions threshold to compare a proposed project's GHG emissions against. Therefore, although the proposed project's GHG emissions are presented in this section for disclosure purposes, they are not relied upon for determining the significance of the project's GHG emissions. Rather, the significance of the proposed project's emissions are evaluated based on project consistency with BAAQMD GHG Threshold Criteria B (Consistency with the City's CAP) and other plans, policies, and regulations that have been adopted for the purposes of reducing GHG emissions. These other plans, policies, and regulations adopted for the purposes of reducing GHG emissions include:

- CARB 2017 Climate Change Scoping Plan;
- MTC/ABAG Plan Bay Area 2050; and
- BAAQMD 2017 Clean Air Plan

The BAAQMD has not adopted a threshold of significance for construction-related GHG emissions. The BAAQMD's CEQA Air Quality Guidelines do, however, encourage lead agencies to quantify and disclose construction-related GHG emissions, determine the significance of these emissions, and incorporate BMPs to reduce construction-related GHG emissions. Accordingly, construction-related GHG emissions are amortized over the lifetime of the proposed project (presumed to be a minimum of 30 years). This normalizes construction emissions so that they can be grouped with operational emissions.

GHG emissions from construction and operation of the proposed project were estimated using CalEEMod, version 2020.4, based on default data assumptions contained in CalEEMod, with the project-specific modifications described in Section 3.3.3. The project's estimated construction and operational GHG emissions are presented below in Table 3-7.

Table 3-7: Project Greenhouse Gas Emissions

Source	GHG Emissions (MT/YR)			
	CO_2	CH_4	N_2O	TOTAL(A)
Area	1.1	<0.1	0.0	0.1
Energy	0.0	0.0	0.0	0.0
Mobile(C)	57.4	<0.1	<0.1	58.3
Solid Waste	2.2	0.1	0.0	5.5
Water/Wastewater	0.2	<0.1	<0.1	0.8
Amortized Construction	16.8	<0.1	<0.1	17.1
Total Mass Emissions(B)	*76.7*	*0.2*	<0.1	*81.8*

Source: MIG 2022 (See Appendix A.1)
Note:
(A) $MTCO_2e$
(B) Slight variations may occur due to rounding.

As shown in Table 3-7, development of the proposed project would generate approximately 81.8 $MTCO_e$e/yr upon its first year of operation. As noted previously, the project's GHG emissions have been presented for informational purposes, and the significance of the project's GHG emissions are assessed based on compliance with the City's CMAP and consistency with other plans, policies, and regulations that have been adopted for the purposes of reducing GHG emissions.

San Carlos Climate Mitigation and Action Plan

An analysis of the proposed project's consistency with applicable measures in the City's CMAP is provided in Table 3-8.

Table 3-8: Project Consistency with the City of San Carlos's CMAP

Applicable Measures	Consistency Analysis
Energy	
Strategy 4: Electrification. Transition to electricity as the primary energy source citywide.	Consistent. The proposed project would be designed to be all-electric.
Strategy 6: Rooftop Solar. Continue to support and increase participation in rooftop and onsite solar energy systems in the community and at City facilities.	Consistent. The proposed project would not feature on-site solar panels; however, it would be served by PCE, which has a GHG-free renewable energy portfolio, and would not include natural gas. Furthermore, the project would be designed to utilize solar for lighting (through window orientation and skylights), thereby reducing electricity consumption from lighting and possibly heating, too.
Transportation and Land Use	
Strategy 18: Electric Vehicles. Support residents and business owners to transition to electric and plug-in hybrid vehicles	Consistent. The project would comply with the City's Reach Code requirements for EV charging equipment and infrastructure.
Off-Road	
Strategy 23: Clean-fuel Construction and Landscaping. Encourage hybrid and clean-fuel construction and landscaping equipment citywide.	Consistent. As required by Mitigation Measure AIR-1, the proposed project would be required to use Tier 4 equipment during construction activities.

Table 3-8: Project Consistency with the City of San Carlos's CMAP

Applicable Measures	Consistency Analysis
Waste	
Strategy 27: Construction and Demolition Waste. Increase the amount of waste recycled during construction and demolition of buildings.	Consistent. The project would divert construction waste, consistent with CalGreen Code requirements and City Municipal Code Chapter 8.05.
Adaptation and Resilience	
Strategy 37: Heat Island Effect. Minimize the urban heat island effect	Consistent. The project would be subject to the 2019 Title 24 Building Code, which would require the proposed buildings to have roofs that meet the aged solar reflectance and thermal emittance requirements specified in CalGreen Code section 140.3(a)(1)(A)(ii).
Source: San Carlos, 2021	

As shown in Table 3-8, the proposed project would be consistent with the City's CMAP and therefore not conflict with it. Accordingly, the project meets the significance criteria maintained by the BAAQMD and the project is eligible for GHG emission streamlined review under Guidelines section 15183.5(b). Therefore, the proposed project would be consistent with the BAAQMD GHG threshold criteria b.

2017 Scoping Plan

Nearly all of the specific measures identified in the 2017 Climate Change Scoping Plan would be implemented at the state level, with CARB and/or another state or regional agency having the primary responsibility for achieving required GHG reductions. The proposed project, therefore, would not directly conflict with any of the specific measures identified in the 2017 Climate Change Scoping Plan.

Plan Bay Area 2050

The overarching goal of *Plan Bay Area 2050* is to concentrate development in areas where there are existing services and infrastructure rather than allocate new growth in outlying areas where substantial transportation investments would be necessary to achieve the per capita passenger vehicle, vehicle miles traveled, and associated GHG emissions reductions. While the proposed project is not within a PDA, it is an infill development project within the City. The project would be developed in a portion of the city where there are existing residences and served by existing services (e.g., schools, fire, etc.). Each dwelling unit would also feature at least one parking space per dwelling unit that is Level 2 EV ready, consistent with the City's Reach Code, which would support a reduction in per capita GHG emissions form mobile sources. The proposed project, therefore, would not conflict with *Plan Bay Area 2050*.

2017 Clean Air Plan

The project would not conflict with or obstruct implementation of the BAAQMD's *2017 Clean Air Plan* (BAAQMD 2017b). The *2017 Clean Air Plan* includes GHG emissions from construction and operational GHG emissions sources in its emissions inventories and plans for achieving Clean Air Plan goals. As discussed in Section 3.3.2, control measures in the *2017 Clean Air Plan* do not apply to the proposed project. In addition, as described above "City of San Carlos Climate Mitigation and Action Plan" the proposed project would be consistent with the City's CMAP, which addresses GHG emissions through 2030. Therefore, the project would also support the goals of the *2017 Clean Air Plan* by demonstrating progress toward the State's 2030 GHG emission reduction goal. Accordingly, the proposed project would not conflict with the *2017 Clean Air Plan*.

3.8.4 References

Bay Area Air Quality Management District (BAAQMD) 2017a. *California Environmental Quality Act Air Quality Guidelines*. San Francisco, CA. June 2010, updated May 2017.

_____2017b. 2017 Clean Air Plan: Spare the Air, Cool the Climate. BAAQMD, Planning, Rules, and Research Division. April 19, 2017.

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3.9 HAZARDS AND HAZARDOUS MATERIALS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☒	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☒	☐
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☒	☐

3.9.1 Environmental Setting

The project site is currently largely undeveloped, though it contains some hardscape from past development. The project site was previously occupied by two residences and associated structures; these residences and structures were demolished in 2022. The project site is surrounded by residential and public (park and school) land uses.

3.9.2 Discussion

Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant Impact. Hazardous materials include substances that are flammable, corrosive, explosive, radioactive, infectious, thermally unstable, and poisonous. The proposed residential development would involve the regular use, storage, and disposal and intermittent transport of household chemicals, including paints, solvents, fuels, and cleansers, and pesticides and fertilizers for landscape maintenance. Construction activities at the project site would involve the use of hazardous materials in the short term, such as petroleum-based fuels

for maintenance and construction equipment, wet concrete and asphalt, paint, and other hazardous construction materials.

All hazardous substances associated with project operation would be used, transported, stored, and disposed of in conformance with applicable regulations, including:

- The Resource Conservation Recovery Act, which provides the "cradle to grave" regulation of hazardous wastes;
- The Comprehensive Environmental Response, Compensation, and Liability Act, which regulates closed and abandoned hazardous waste sites;
- The Hazardous Materials Transportation Act, which governs hazardous materials transportation on US roadways;
- The International Fire Code, which creates procedures and mechanisms to ensure the safe handling and storage of hazardous materials;
- California Code of Regulations Title 22, which regulates the generation, transportation, treatment, storage, and disposal of hazardous waste; and
- The California Code of Regulations Title 27, which regulates the treatment, storage, and disposal of solid wastes.

Compliance with applicable regulations would ensure that the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. This impact would be less than significant.

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

Less Than Significant Impact. Potential hazards to the public or the environment through the accidental release of hazardous materials into the environment during project construction and operation are discussed below.

Project Construction

Construction activities at the project site would also involve the use of hazardous materials in the short term, such as petroleum-based fuels for maintenance and construction equipment, wet concrete and asphalt, paint, and other hazardous construction materials. A Stormwater Pollution Prevention Plan would be developed to regulate all construction activities for the protection of water quality (see discussion in Hydrology, below). The SWPPP would identify equipment and materials staging areas that would be managed to control any accidental spills or releases. All spills or leaks of petroleum products during construction are required to be immediately contained, the hazardous material identified, and the material remediated in compliance with applicable State and local regulations. All contaminated waste is required to be collected and disposed of at an appropriately licensed disposal or treatment facility. Furthermore, strict adherence to all emergency response plan requirements set forth by the San Mateo County Environmental Health Department (SMCEHD) would be required through the duration of construction. Therefore, substantial hazards to the public or the environment arising from the release of hazardous materials during project construction would not occur.

Project Operation

As discussed above under criterion a), operation of the project would involve the use, storage and/or disposal of hazardous materials associated with common household uses and landscape maintenance. Although unlikely with compliance with applicable regulations, project operation could result in the accidental release of one or more of these materials into the environment. However, due to the relatively small amounts of household chemicals that would potentially be used and stored onsite, and the likelihood that household chemicals would be stored within fully enclosed structures, thereby reducing the potential for accidental sills to enter the surrounding

environment, the potential for project use of hazardous materials to create a significant hazard to the public is unlikely. This impact would be less than significant.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or hazardous waste within one-quarter mile of an existing or proposed school?

Less than Significant Impact. Arundel Elementary School, the closest school to the site, is located immediately south of the project site across Phelps Road. Operation of the project is not expected to emit hazardous emissions or handle hazardous materials in a way that would potentially impact Arundel Elementary School users due to the residential nature of the proposed development. Construction of the project would generate emissions from construction vehicles and equipment and involve the use of hazardous materials. However, with compliance with the best management practices and regulations discussed under Sections 3.3.2 and 3.9.2 a) and b), the potential for construction of the project to adversely impact Arundel Elementary School is less than significant. As such, this impact would be less than significant.

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

No Impact. The project site is not included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 (CalEPA 2022). Further, there are no hazardous materials sites located within 1,000 feet of the project site. Therefore, the risk of contamination on the project site from nearby hazardous materials handling and storage is low. This impact would be less than significant.

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 or excessive noise for people residing or working in the project area?

Less Than Significant Impact. San Carlos Airport, located approximately 1.25 miles northeast of the project site, is a general-aviation airport. The project is located in the San Carlos Airport Land Use Compatibility Plan (ALUCP) Area of Influence (AIA) (ESA 2015). According to the ALUCP, the project site is not within a primary flight path nor is it located within an airport safety zone. Under the ALUCP, the project site has an allowable height of 305 feet. The proposed residences would have a maximum height of 33’8”, which is well below the allowable height of 305 feet. Furthermore, none of the approach nor departure paths to or from San Carlos Airport pass over the project site. Accordingly, the proposed project would not subject people or structures to substantial hazards related to aircraft crashes and the proposed building would not create a hazard to air navigation. This impact would be less than significant.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

No Impact. The City of San Carlos has established emergency preparedness procedures to respond to a variety of natural and man-made disasters that could affect the community. In the event of an emergency, the City would respond according to the Standardized Emergency Management System (SEMS) developed by the State. The SEMS system establishes a hierarchy of response, with local government as the first responders. If San Carlos does not have sufficient resources to respond to a disaster, the County of San Mateo would lend resources. San Carlos established an Emergency Operations Center (EOC) program in 1987. The Emergency Response Plan establishes evacuation routes, identifies agencies responsible for emergency response and summarizes and assesses potential threats and hazards. San Mateo County Sheriff’s Office of Emergency Services (OES) is responsible for coordinating

emergency response in the county. The OES operates under a Joint Powers Agreement with the 20 incorporated cities in the county (San Carlos 2017).

The proposed project would not interfere with the City's emergency response plan or emergency evacuation plan. The proposed project would not block roads and would not impede emergency access to surrounding properties or neighborhoods. The project would follow all of the City's construction best management practices, which include that vehicle parking and storage be done in a designated area. The project proposal includes the construction of a new emergency vehicle access road that would connect Sheldon Avenue and Spring Valley Way and provide emergency access throughout the site. No impact would occur.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

Less than Significant Impact. See Section 3.20 Wildfire. Though the project site is not located in a State-designated fire hazard severity zone (FHSZ) (CAL FIRE 2022), the site is located near a Very High Fire Hazard Severity Zone (VHFHSZ) and is located within the City's designated Wildland Urban Interface (WUI) Fire Area. As such, people and structures onsite may be at risk due to wildfire hazards. However, the project would improve fire vehicle access to the project site by improving Sheldon Avenue as a new fire access road, reduce fire risk by removing all on-site eucalyptus trees, which constitute a fire hazard, and construct the residences according to WUI building standards including the California Building Code Fire Code Section 7A (see description of building materials in Project Description). As such, the project has been designed to reduce the risk of loss, injury, or death involving wildland fires. The project would have less than significant impacts related to wildfire.

3.9.3 References

California Department of Forestry and Fire Protection (CAL FIRE). 2022. Fire and Resource Assessment Program, California Fire Hazard Severity Zone Viewer. Accessed on April 13, 2022 at https://egis.fire.ca.gov/FHSZ/.

California Environmental Protection Agency (Cal EPA). 2022. Cortese List Data Resources. Accessed August 2, 2022 at https://calepa.ca.gov/sitecleanup/corteselist/.

City of San Carlos. 2022. Adopted Codes. Accessed on February 21, 2023 at https://www.cityofsancarlos.org/government/departments/community-development/building/building-permits/adopted-codes.

ESA. 2015 (October). Comprehensive Airport Land Use Compatibility Plan for the Environs of San Carlos Airport. Prepared for the City/County Association of Governments of San Mateo County. Accessed August 8, 2022 at https://ccag.ca.gov/wp-content/uploads/2015/11/SQL_FinalALUCP_Oct15_read.pdf.

3.10 HYDROLOGY AND WATER QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) Result in substantial erosion or siltation on- or off-site;	☐	☐	☒	☐
ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;	☐	☐	☒	☐
iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv) Impede or redirect flood flows?	☐	☐	☒	☐
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☒	☐
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☐	☒

3.10.1 Environmental Setting

The project site's topography is characterized as a southeast trending ridge with a swale to the east (Earth Systems Pacific 2020, p. 1). The site's elevation ranges from 310 feet above mean sea level (msl) in the northwest corner to approximately 165 feet above msl on the south end. Existing drainage conditions across the property can be generally characterized as sheet flow to the south towards Phelps Road (Lea & Braze Engineering 2020).

The site is located within the Pulgas Creek Watershed, which drains approximately 3.5 square miles. A large portion of the creek channel is modified. The creek flows into Smith Slough near the Bair Island National Wildlife Refuge (SMCWPPP 2023).

The City of San Carlos and the project site are located within the Santa Clara Valley Groundwater Basin, San Mateo Plain Sub-basin, as identified by the San Francisco Regional Water Quality Control Board (RWQCB).

The project site is located in flood hazard Zone X, an area of minimal flood hazard, as mapped by the Federal Emergency Management Agency (FEMA)(FEMA 2019).

3.10.2 Discussion

Would the project:

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less Than Significant Impact. The potential impacts to water quality during the construction and operation phases of the proposed project are discussed below.

Project Construction

Clearing, site preparation, and construction activities associated with the proposed project have the potential to impact water quality through soil erosion and increasing the amount of silt and debris carried in runoff. Additionally, the use of fuels, solvents, paints, and other types of hazardous materials during construction may present a risk to surface water quality. Finally, the refueling and parking of construction vehicles and other equipment on-site during construction may result in oil, grease, or related pollutant leaks and spills that may discharge into the storm drain system.

To minimize these potential impacts, the proposed project would be required to comply with the National Pollutant Discharge Elimination System (NPDES) General Construction Permit (GCP) as well as prepare a Storm Water Pollution Prevention Plan (SWPPP) that requires the incorporation of best management practices (BMPs) to control sedimentation, erosion, and hazardous materials contamination of runoff during construction. The State Water Resources Control Board (SWRCB) mandates that projects that disturb one or more acres must obtain coverage under the Statewide GCP. The project would disturb more than one acre and therefore would be subject to these requirements.

The project Applicant is required to comply with the C.6 provisions of the Municipal Regional Permit (MRP) – Construction Stormwater best management practices and attach the San Mateo Countywide Water Pollution Prevention Program's (SMCWPPP) construction best management practices plan sheet to project plans, and the contractor is required to implement the applicable best management practices.

In addition, the project must comply with the City of San Carlos' existing regulatory requirements, including Chapter 13.14, Stormwater Management and Discharge Control, which is designed to reduce pollutants in stormwater discharges to the maximum extent practicable.

Adherence to applicable water quality regulations, compliance with the City of San Carlos Municipal Code, and implementation of construction best management practices, as specified in the Conditions of Approval (COAs) in Table 2-4, would ensure that water quality standards are not violated during construction. Therefore, potential impacts to water quality during construction would be less than significant.

Project Operation

The proposed project would increase the amount of impervious surface area at the project site compared to existing conditions. The site is currently covered with minimal impervious surface area (a partially paved driveway). The project site currently includes approximately 17,354 square feet (0.4 acres) of impervious surface area and approximately 118,197 square feet (2.71 acres) of pervious surface area. The proposed project would ultimately include 42,594 square feet (0.98 acres) of on-site impervious surface area, resulting in a net increase of 25,240 square feet (0.58 acres) of impervious surface area compared to existing conditions. Following construction, approximately 92,957 square feet (2.13 acres) of the existing on-site pervious

surface area would remain. As such, project implementation would increase the amount of runoff generated onsite compared to existing conditions.

The proposed project could impact water quality during the operations phase of the project. Runoff from residential properties, including roadways and driveways, typically contains oils, fuel, by products of combustion (such as lead, cadmium, nickel, and other metals), as well as fertilizers, herbicides, pesticides, and other pollutants. Precipitation at the beginning of the rainy season may result in an initial stormwater runoff (first flush) with high pollutant concentrations.

Water quality in stormwater runoff is regulated locally by the San Mateo Countywide Water Pollution Prevention Program (SMCWPPP), which include the C.3 provisions set by the San Francisco Bay RWQCB's MRP. The MRP was amended in 2015 and includes stricter requirements for incorporating post-construction stormwater control/low impact development measures into new development and redevelopment projects. Since the proposed project would create and/or replace 10,000 square feet or more of impervious surface, it is a "Regulated project." In order to comply with Provision C.3 of the MRP, the project would be required to include appropriate source control, site design, and storm water treatment measures to address both soluble and insoluble storm water runoff pollutant discharges and prevent increases in runoff flows. A Stormwater Operations and Maintenance Plan will also be prepared for the project, consistent with City regulations for stormwater control.

Collectively, adherence to the C.3 provisions and measures included within the forthcoming Stormwater Operations and Maintenance Plan noted above would address the anticipated and expected pollutants of concern from the operational phase of the proposed project. Through the development review process, the City would ensure that the proposed project complies with various statutory requirements necessary to achieve regional water quality objectives and protect groundwater and surface waters from pollutants in stormwater runoff. Stormwater runoff generated on the project site would be managed in accordance with all applicable federal, State, and local water quality regulations to effectively minimize the proposed project's impacts on water quality.

Through compliance with City regulations, including preparation and implementation of a Stormwater Control Plan, implementation of the Stormwater Operations and Maintenance Plan, and implementation of construction stormwater treatment measures, the potential impact to water quality from project operation would be less than significant.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less than Significant. Groundwater recharge may be reduced if areas currently available for the infiltration of rainfall runoff are reduced and permeable areas are replaced by impermeable surfaces. The project site is currently largely undeveloped and covered with minimal impervious surface area (i.e., a partially paved driveway). Implementation of the proposed project would increase the amount of impervious surface area on the site by approximately 25,240 square feet (0.58 acres). However, despite the proposed net increase of 25,240 square feet of impervious surface area, a significant portion (68.6 percent) of the project site would be left undeveloped as newly restored grassland or landscaped pervious areas (e.g., bioretention treatment area and drought-tolerant and low water use plantings). As such, a majority of the project site would continue to facilitate the percolation of stormwater. Therefore, while the project would add impervious surface area, the proposed project would not result in a significant change in groundwater recharge. A less than significant impact would occur.

Implementation of the proposed project would result in an increase in water demand as compared to existing conditions. However, groundwater is not used for municipal supply in San Carlos. The California Water Service Company (Cal Water) Mid-Peninsula District (MPD) supplies potable water for the proposed project and does not use groundwater supplies to meet

demand. Since the proposed project would not develop or increase the use of groundwater supplies, implementation of the project would not impact groundwater supplies or groundwater recharge. No impact would occur.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) Result in substantial erosion or siltation on- or off-site;

Less Than Significant Impact. Although the project would significantly alter the existing topography and the natural sheet flow patterns of stormwater runoff from the undeveloped portions of the site, it would not alter the direction of drainage. Stormwater drainage patterns around the areas where the two houses were previously located have been altered from natural conditions. Currently, the existing drainage patterns direct stormwater as sheet flow to the south towards Phelps Road. Under the proposed project, stormwater would be directed to on-site stormwater retention features and then to the City storm drain. To meet C.3 requirements, stormwater runoff from the site would be directed to a bioretention treatment area that allow for the cleansing and infiltration of stormwater before draining to the City's storm drain system. The 1,830-square-foot bioretention treatment area would be located between Phelps Road and the new driveway that would serve Lots 8 and 9 (see Figure 2-12 Stormwater Control Plan). Pervious surfaces from restored grassland and landscaping at the project site would also allow for the percolation of stormwater into subsoils, thereby reducing runoff.

The proposed project would not cause erosion or siltation over the long term because the project site would be covered with the new buildings, paved areas, restored grassland, and landscaping following construction. No bare soils would be present. However, project construction would require grading and soil exposure that could result in temporary erosion and/or siltation if not controlled. As stated previously, the project would be required to comply with COAs to prevent erosion and saltation. Compliance with these provisions would prevent erosion or siltation on- or off-site during construction activities. This impact would be less than significant.

ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;

iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff;

Less Than Significant Impact (Responses ii) and iii)). The project would not alter any stream or river. Although significant grading would occur on site, the project would not significantly alter the existing drainage pattern of the site or area. Although a large portion of the site would remain undeveloped or have pervious surfaces, the project would result in a 25,240-square-foot net increase in impervious surface area onsite and would therefore increase the amount of stormwater runoff from the site over existing conditions. The project design includes the construction of bioretention ponds to capture and filter the increased stormwater runoff before discharge to the City storm drain system. The project site would be split into six drainage management areas (DMAs), one of which would contain the 1,830-square-foot bioretention area as shown in Figure 2-12 Stormwater Control Plan. Based on an iterative multi-storm design process, the bioretention area and metering outlet were sized to provide adequate mitigation for all flow cases between 10% of the 2-year storm, and 100% of the 10-year storm. The proposed bioretention treatment area would be constructed between the Phelps Road and the new driveway. 12-inch storm drain lines would be constructed to convey filtered stormwater runoff from the bioretention treatment areas to a new 12-inch storm drain main in Spring Valley Way and an existing storm drain main in Phelps Road (Figure 2-12). The project would also construct drainage swales throughout the site to direct runoff toward the new stormwater catch basins.

The fire access road would result in a 3,600-square-foot net increase in impervious surface area compared to existing conditions. Runoff generated by the new fire access road would be managed and treated in four DMAs.

Increased runoff from the additional impervious surfaces would be retained on the project site to maintain pre-project runoff volumes as required by the project Drainage Control Plan. Therefore, the project would not increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site, create or contribute to runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. This impact would be less than significant.

iv) Impede or redirect flood flows?

Less Than Significant Impact. The project site is located with FEMA flood Zone X, which is an area subject to minimal flood hazard (FEMA 2019). The elevation at the site is 310 feet above mean sea level (msl) in the northwest corner to approximately 165 feet above msl on the south end, so on-site flooding is unlikely. As the project site is not located in a Special Flood Hazard Area (SFHA) or floodplain, development of the site is not subject to requirements specific to reducing risks due to flooding. The project would not impede or redirect flood flows. This impact is less than significant.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Less Than Significant Impact. As stated in response to c(iv), FEMA flood Zone X, which is an area subject to minimal flood hazard (FEMA 2019). The elevation at the site is 310 feet above mean sea level (msl) in the northwest corner to approximately 165 feet above msl on the south end, so on-site flooding is unlikely and flood risk is minimal.

A tsunami is a large tidal wave generated by an earthquake, landslide, or volcanic eruption. Tsunami inundation maps have been developed for the San Francisco Bay area. The project site is not within a tsunami inundation zone, and therefore, it would not be subject to flooding from a tsunami (California Department of Conservation 2021).

Seiches are waves that oscillate in enclosed water bodies, such as reservoirs, lakes, ponds, swimming pools, or semi-enclosed bodies of water, such as San Francisco Bay. As the site is not located within the tsunami inundation zone, the site is not expected to be inundated by a seiche (California Department of Conservation 2021).

The project is not likely to release pollutants due to flooding, tsunami, or seiche risk. This impact would be less than significant.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Impact. The project would comply with all applicable regulations to protect water quality (see response to criterion a) and would not impact ground water (see response to criterion b)). Therefore, project would not obstruct implementation of a water quality control plan or groundwater management plan. No impact would occur.

3.10.3 References

California Department of Conservation. 2021. CGS Information Warehouse: Tsunami Hazard Area Map. San Mateo County Tsunami Hazard Areas. Accessed February 12, 2023 at https://www.conservation.ca.gov/cgs/tsunami/maps/san-mateo.

Federal Emergency Management Agency (FEMA). 2019. National Flood Insurance Program Flood Insurance Rate Map #06081C0169G. Accessed February 13, 2023 at https://msc.fema.gov/portal/home.

City of San Carlos. 1994. Municipal Code Chapter 13.14 Stormwater Management and Discharge Control.

Earth Systems Pacific. 2020. Geotechnical Engineering Study 308 & 310 Phelps Road Subdivision, 308 & 310 Phelps Road, San Carlos, California. June 19, 2020.

Lea & Braze Engineering. 2020. Hydrology Study: 308 Phelps Road San Carlos, California, San Mateo County, APN: 049-292-050. November 20, 2020.

San Mateo Countywide Water Pollution Prevention Program (SCWPPP). 2023. Watershed Map. Accessed on February 12, 2023 at https://www.flowstobay.org/data-resources/maps/watershed-map/.

3.11 LAND USE AND PLANNING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

3.11.1 Environmental Setting

General Plan and Zoning

The San Carlos General Plan was adopted in 2009 along with certification of the associated Environmental Impact Report (EIR) (State Clearinghouse Number 2003032015). The City of San Carlos 2030 General Plan designates the project site as Open Space (OS), which applies to undeveloped park lands, visually significant open lands, water areas and wildlife habitat. Land designated as open space is intended to remain undeveloped in the future. Trails, trail heads and agricultural uses such as 4H are appropriate uses. However, it is not the City's intent that the parcel have this Open Space designation as it occurred through a mapping error. The City is separately processing the General Plan correction, resulting in the project site's land use designation as Single-Family, Low Density separately, and it is expected that the Amendment will be completed prior to public hearings for this project. Following the adoption of the General Plan correction to fix the mapping error resulting in the project site's land use designation as Single-Family, Low Density. The project includes a General Plan Amendment to redesignate the site to Single-Family.

The project site has a zoning designation of RS-3 Single-Family (RS-3). This district is intended for residential densities up to three (3) units per net acre. The project includes a request to rezone the subject site from the RS-3 to the RS-6 zoning district. Dwelling types may include detached single-unit housing, small lot single-unit development, duplexes, townhomes, and accessory dwelling units. The RS-6 zoning designation has a maximum building height of 28 feet and requires a 10-foot setback on front and side lot lines. Small Lot Single Development Units proposed within a residential district have a maximum floor area ratio of 0.45.

The project site is within the Hillside (H) Overlay District. The Hillside (H) Overlay District includes development, building design, and landscaping standards intended to protect the health, safety, and welfare of residents of the City by establishing regulations for managing the development of hillside areas. The specific purposes of the H Overlay District are to:

A. Protect public health and safety by minimizing hazards, including soil erosion and fire danger associated with development on hillsides;

B. Preserve and enhance San Carlos' scenic character, including its natural hillsides;

C. Conserve the City's open spaces and significant natural features;

D. Respect natural features in the design and construction of hillside development; and

E. Design hillside development to be sensitive to existing terrain, views, and significant natural landforms and features.

The H District requires additional development and building design standards beyond those required by the RS-6 District. Development in the H Overlay District is required to maintain 25 percent of the lot area plus the percentage figure of average slope, not to exceed a maximum of 85 percent, in its natural state. The project includes a request for an exception from the Natural State requirements to reflect site conditions.

The maximum allowed building height in the H District is 35 feet, the maximum underfloor height is 6 feet, and the downhill building elevation cannot exceed a maximum height of 20 feet from finished grade with sufficient articulation from that building face to the next highest story. Retaining walls in the front and rear lot setback must not exceed six feet, and offsite retaining walls must not exceed a height of three feet.

The project site is also located in the Neighborhood Hub (NH) Overlay District, which is intended to implement the neighborhood hub concept established in the General Plan. A Neighborhood Hub is not mandatory and may be established if requested by the applicant. The applicant is not requesting a Neighborhood Hub; therefore, this NH Overlay is not applicable to this project.

Parking

San Carlos Municipal Code Section 18.20.040, Required Parking Spaces, requires vehicular parking spaces as follows:

> 2 spaces per dwelling unit. In RS-6, both spaces must be either within a garage or carport, or 1 space within a garage or carport with the other space located within a 20-ft.-wide, 2-car driveway. For all other R districts, parking must be within a garage or carport.

Airport Land Use Compatibility Plan

The project is located in the San Carlos Airport Land Use Compatibility Plan (ALUCP) Airport Influence Area (AIA). According to the ALUCP, the project site not within a primary flight path nor is it located within an airport safety zone. Under the ALUCP, the project site has an allowable height of 305 feet.

3.11.2 Discussion

Would the project:

a) Physically divide an established community?

No Impact. The development of the proposed project would occur on a site that is largely undeveloped. The project would not introduce any new major roadways or other physical features through existing residential neighborhoods or other communities that would create new barriers. Therefore, the project would not physically divide an established community. No impact would occur.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Less than Significant Impact. The City of San Carlos is in the process of correcting the General Plan Map to correct land use mapping errors within the General Plan. These changes will be completed prior to public hearing for this project. The request includes a General Plan Amendment to the Single Family designation, a Rezone to the RS-6 zoning district, and a Conditional Use Permit (CUP) for a Small Lot Single Unit Development.

San Carlos 2030 General Plan

The General Plan Guidelines published by the State Office of Planning and Research defines consistency as follows; “An action, program, or project is consistent with the General Plan if, considering all its aspects, it would further the objectives and policies of the General Plan and

not obstruct their attainment." Therefore, the standard for analysis used in this Initial Study is based on general agreement with the policy language and furtherance of the policy intent. Land use policies in the General Plan 2030 that are intended to avoid or mitigate environmental effects promote urban infill, and encourage new commercial development to provide outdoor areas, landscaping, and tree canopy. The proposed project would not conflict with these policies. Accordingly, the impact would be less than significant. The proposed project would assist the City in meeting its newly adopted Housing Element (January 24, 2023) goals for new housing. The proposed project is also designed in accordance with new Safety Element goals and policies related to wildfire hazard, including policies on providing two points of ingress and egress, providing adequate water supply for firefighting needs, and designing structures according to California Building Code Fire Code Section 7A wildland urban interface building standards (see newly adopted Environmental Safety and Public Services Element here: https://www.cityofsancarlos.org/home/showpublisheddocument/7719/637983373972900000)

Zoning Ordinance

Maximum Floor Area, Height, and Setbacks

The proposed project would involve the construction of nine single-family homes in the RS-6 zoning district with a Hillside (H) district overlay. The RS-6 zoning district accommodates residential densities up to six (6) units per net acre. Dwelling types may include detached single-unit housing, small lot single-unit development, duplexes, townhomes, and accessory dwelling units. See Table 2-1 in the Project Description for the characteristics of the proposed homes including setbacks, building height, and floor area. The proposed homes meet the density maximum, setbacks, and maximum floor area requirements of the RS-6 district.

Due to the project site's steep slopes, site development at the density permissible by the RS-6 zone requires substantial grading. As a result, the proposed project development would not meet the H District standard requiring a minimum of 25 percent of the project site to remain in a natural state. The project includes a request for an exception from the Natural State requirements to reflect site conditions.

The H District overlay has a maximum building height of 35 feet. The proposed homes would be constructed to a maximum height of 33 feet, 8 inches, which is below the maximum height of 35 feet for the H district.

Small Lot Single Unit developments have a maximum floor area ratio (FAR) of 0.45. The maximum FAR of the proposed homes would be 0.448, which meets the 0.45 FAR standard.

Parking

San Carlos Municipal Code Section 18.20.040, Required Parking Spaces, requires two vehicular parking spaces per single-unit residential building. In RS-6, both spaces must be either within a garage or carport, or 1 space within a garage or carport with the other space located within a 20-ft.-wide, 2-car driveway. Under these requirements, in total, the project would be required to provide 18 vehicular parking spaces.

The project proposes a total of 41 vehicular parking spaces, including 36 private parking spaces and 5 shared guest parking spaces. The 36 private parking spaces would consist of four spaces per home, with two spaces allocated to each attached garage and two spaces allocated to each driveway. The five shared guest parking spaces would be located along the Spring Valley Way extension. The project's proposed parking provisions meet and exceed City requirements.

According to Municipal Code Section 18.20.080, Bicycle Parking, single-family residential units do not need to provide short-term or long-term bicycle parking. As such, the project is not subject to bicycle parking requirements. This impact would be less than significant.

Airport Land Use Compatibility Plan

According to the ALUCP, the project site is not within a primary flight path nor is it located within an airport safety zone (C/CAG 2015). The ALUCP does not establish compatible uses for lands located outside the ALUCP's six Safety Compatibility Zones. Under the ALUCP, the project site has an allowable height of 305 feet. The proposed residences would have a maximum height of 33'8", which is well below the allowable height of 305 feet. Even accounting for the site's topography, which increase the base elevation at which most of the residences would be constructed, none of the residences would exceed 305 feet above mean sea level. Accordingly, the proposed project would be consistent with the ALUCP. This impact would be less than significant.

3.11.3 References

City/County Association of Governments of San Mateo County (C/CAG). 2015. Comprehensive Airport Land Use Compatibility Plan for the Environs of San Carlos Airport. Adopted October 2015.

City of San Carlos (San Carlos) 2009. 2030 General Plan. Adopted October 12, 2009.

_____ 2022. San Carlos Municipal Code Title 18: Zoning. Revised 8/22.

3.12 MINERAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
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?	☐	☐	☐	☒
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?	☐	☐	☐	☒

3.12.1 Environmental Setting

The project site is located in the City of San Carlos on a site that was partially developed with two single-family residences and associated structures. The site is surrounded by residential, park, and school land uses. There are no mines or known mineral resources in the City of San Carlos (City of San Carlos, 2009).

3.12.2 Discussion

Would the proposed project:

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?

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?

No Impact (Responses a – b). No locally important mineral resources are designated in the City of San Carlos (City of San Carlo, 2009). The project site has no potential for use in resource recovery and, therefore, would have no impact on the availability of mineral resources.

3.12.3 References

City of San Carlos. 2009. San Carlos 2030 General Plan. Adopted October 12, 2009.

3.13 NOISE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or in other applicable standards of other agencies?	☐	☐	☒	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or 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?	☐	☐	☒	☐

3.13.1 Environmental Setting

Noise may be defined as loud, unpleasant, or unwanted sound. The frequency (pitch), amplitude (intensity or loudness), and duration of noise all contribute to the effect on a listener, or receptor, and whether the receptor perceives the noise as objectionable, disturbing, or annoying.

The Decibel Scale (dB)

The decibel scale (dB) is a unit of measurement that indicates the relative amplitude of a sound. Sound levels in dB are calculated on a logarithmic basis. An increase of 10 dB represents a tenfold increase in acoustic energy, while 20 dBs is 100 times more intense, 30 dBs is 1,000 more intense, and so on. In general, there is a relationship between the subjective noisiness, or loudness of a sound, and its amplitude, or intensity, with each 10 dB increase in sound level perceived as approximately a doubling of loudness.

Sound Characterization

There are several methods of characterizing sound. The most common method is the “A-weighted sound level,” or dBA. This scale gives greater weight to the frequencies of sound to which the human ear is typically most sensitive. Thus, most environmental measurements are reported in dBA, meaning decibels on the A-scale.

Human hearing matches the logarithmic A-weighted scale, so that a sound of 60 dBA is perceived as twice as loud as a sound of 50 dBA. In a quiet environment, an increase of 3 dB is usually perceptible, however, in a complex noise environment such as along a busy street, a noise increase of less than 3 dB is usually not perceptible, and an increase of 5 dB is usually perceptible. Normal human speech is in the range from 50 to 65 dBA. Generally, as environmental noise exceeds 50 dBA, it becomes intrusive and above 65 dBA noise becomes excessive. Nighttime activities, including sleep, are more sensitive to noise and are considered affected over a range of 40 to 55 dBA. Table 3-9 lists typical outdoor and indoor noise levels in terms of dBA.

Table 3-9: Typical Outdoor and Indoor Noise Levels

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	-110-	Rock Band
Jet flyover at 1,000 feet		
	-100-	
Gas lawn mower at 3 feet		
	-90-	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	-80-	Garbage disposal at 3 feet
Noise urban area, daytime		
Gas lawnmower, 100 feet	-70-	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	-60-	
		Large business office
Quiet urban daytime	-50	Dishwasher next room
Quite urban nighttime	-40-	Theater, large conference room (background)
Quiet suburban nighttime		
	-30-	Library
Quite rural nighttime		Bedroom at night
	-20-	
		Broadcast/recording studio
	-10-	
Lowest threshold of human hearing	-0-	Lowest threshold of human hearing

Source: Caltrans 2013

Sound levels are typically not steady and can vary over a short time period. The equivalent noise level (Leq) is used to represent the average character of the sound over a period of time. The Leq represents the level of steady noise that would have the same acoustical energy as the sum of the time-varying noise measured over a given time period. Leq is useful for evaluating shorter time periods over the course of a day. The most common Leq averaging period is hourly, but Leq can describe any series of noise events over a given time period.

Variable noise levels are values that are exceeded for a portion of the measured time period. Thus, L01 is the level exceeded one percent of the time and L90 is the level exceeded 90 percent of the time. The L90 value usually corresponds to the background sound level at the measurement location.

Noise exposure over the course of an entire day is described by the day/night average sound level, or Ldn, and the community noise equivalent level, or CNEL. Both descriptors represent the 24-hour noise impact on a community. For Ldn, the 24-hour day is divided into a 15-hour daytime period (7 AM to 10 PM) and a nine-hour nighttime period (10 PM to 7 AM) and a 10 dB "penalty" is added to measure nighttime noise levels when calculating the 24-hour average

noise level. For example, a 45 dBA nighttime sound level would contribute as much to the overall day-night average as a 55 dBA daytime sound level. The CNEL descriptor is similar to Ldn, except that it includes an additional 5 dBA penalty beyond the 10 dBA for sound events that occur during the evening time period (7 PM to 10 PM). The artificial penalties imposed during Ldn and CNEL calculations are intended to account for a receptor's increased sensitivity to sound levels during quieter nighttime periods.

Sound Propagation

The energy contained in a sound pressure wave dissipates and is absorbed by the surrounding environment as the sound wave spreads out and travels away from the noise generating source. Theoretically, the sound level of a point source attenuates, or decreases, by 6 dB with each doubling of distance from a point source. Sound levels are also affected by certain environmental factors, such as ground cover (asphalt vs. grass or trees), atmospheric absorption, and attenuation by barriers. Outdoor noise is also attenuated by the building envelope so that sound levels inside a residence are from 10 to 20 dB less than outside, depending mainly on whether windows are open for ventilation or not.

When more than one point source contributes to the sound pressure level at a receiver point, the overall sound level is determined by combining the contributions of each source. Decibels, however, are logarithmic units and cannot be directly added or subtracted together. Under the dB scale, a doubling of sound energy corresponds to a 3 dB increase in noise levels. For example, if one noise source produces a sound power level of 70 dB, two of the same sources would not produce 140 dB – rather, they would combine to produce 73 dB.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear can discern 1-dB changes in sound levels when exposed to steady, single-frequency ("pure-tone") signals in the mid-frequency (1,000–8,000 Hz) range. In typical noisy environments, changes in noise of 1 to 2 dB are generally not perceptible. However, it is widely accepted that people can begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5-dB increase is generally perceived as a distinctly noticeable increase, and a 10-dB increase is generally perceived as a doubling of loudness.

Noise Effects

Noise effects on human beings are generally categorized as:

- Subjective effects of annoyance, nuisance, and/or dissatisfaction
- Interference with activities such as speech, sleep, learning, or relaxing
- Physiological effects such as startling and hearing loss

Most environmental noise levels produce subjective or interference effects; physiological effects are usually limited to high noise environments such as industrial manufacturing facilities or airports.

Predicting the subjective and interference effects of noise is difficult due to the wide variation in individual thresholds of annoyance and past experiences with noise; however, an accepted method to determine a person's subjective reaction to a new noise source is to compare it to the existing environment without the noise source, or the "ambient" noise environment. In general, the more a new noise source exceeds the ambient noise level, the more likely it is to be considered annoying and to disturb normal activities.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear is able to discern 1-dB changes in sound levels when exposed to steady, single-frequency ("pure-tone") signals in the mid-frequency (1,000–8,000 Hz) range. In typical noisy environments, changes in noise of 1 to 2 dB are generally not perceptible. However, it is widely accepted that people can begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5 dB

increase is generally perceived as a distinctly noticeable increase, and a 10 dB increase is generally perceived as a doubling of loudness that would almost certainly cause an adverse response from community noise receptors.

Existing Noise Environment

The primary sources of noise in San Carlos include vehicles, commercial uses, and activities associated with neighborhoods and schools. The primary source of noise at the project site is from traffic on surrounding roadways such as Phelps Road, from adjacent residential properties, and from Arundel Elementary school, which may generate noise from children playing and bells/alarms ringing.

The project is located outside of the San Carlos Airport Land Use Compatibility Plan (ALUCP) area (C/CAG, 2015). There are no private airstrips near the project site; no private airstrips or heliports are in the cities of San Carlos, Redwood City, or Belmont (San Carlos, 2017).

The City's Focused General Plan Update Draft EIR includes ambient noise monitoring at ST-4, located at the intersection of Colorado Avenue and Vista Del Grande, approximately 2,300 feet east of the project site. ST-4 is located in a single-family residential area with similar characteristics to the project site. Ambient noise at ST-4 was 50.0 dBA L_{eq} (San Carlos, 2022).

Sensitive Receptors

Noise sensitive receptors are areas where unwanted sound or increases in sound may have an adverse effect on people or land uses. Residential areas, hospitals, schools, and parks are examples of noise receptors that could be sensitive to changes in existing environmental noise levels. The sensitive land uses within 500 feet of the project site include:

- Individuals visiting Arguello Park, located west of the project site
- Single-family residential receptors northwest of the project site on Highland Court and Highland Avenue
- Single-family residential receptors north of the site on Alta Lane and Highland Avenue
- Single-family residential receptors northeast and east of the project site on Highland Avenue
- Single-family residential receptors southeast of the site on Phelps Road and Arundel Road
- Student receptors south of the site at Arundel Elementary School
- Single-family residential receptors south of the site on Arundel Road

3.13.2 Regulatory Setting

California Building Standards Code

The California Building Standards Code is contained in Title 24 of the California Code of Regulations and consists of 11 different parts that sets forth various construction and building requirements. Part 2, California Building Code, Section 1207, Sound Transmission, establishes sound transmission standards for interior walls, partitions, and floor/ceiling assemblies. Specifically, Section 1207.4 establishes that interior noise levels attributable to exterior noise sources shall not exceed 45 dBA DNL or CNEL (as set by the local General Plan) in any habitable room.

City of San Carlos Municipal Code

The City of San Carlos Municipal Code Chapter 9.30 discusses noise control regulations. Chapter 9.30.070 Section B specifies that construction activities are exempt from noted regulations when limited to Monday through Friday between 8:00 AM and 6:00 PM, and

Saturday and Sunday between 9:00 AM and 5:00 PM. No construction noise-related activities are permitted on holidays listed in the Municipal Code. All gasoline-powered construction equipment is required to be equipped with an operating muffler or baffling system as originally provided by the manufacturer, and no modification to the systems is permitted (the Building Official shall have the authority to grant exceptions in specific cases).

City of San Carlos General Plan

The City of San Carlos General Plan provides guidance for the control of noise to protect residents, workers, and visitors from potentially adverse noise impacts. Its primary goal is to regulate long-term noise impacts to preserve acceptable noise environments for all types of land uses. Figure 9-1 in the City's General Plan Noise Element provides land use and noise compatibility standards for various land uses in the City. For commercial land uses, noise levels up to 70 dBA Ldn are considered "Normally Acceptable." Single-family residential land uses are considered "Normally Acceptable" up to 50 dBA Ldn and "Conditionally Acceptable" up to 75 dBA Ldn, and multifamily residential land uses are considered "Normally Acceptable" up to 65 dBA Ldn and "Conditionally Acceptable" up to 75 dBA Ldn.

The General Plan Noise Element also includes the following policies that may be applicable to the proposed project:

- **Policy NOI-1.1:** Use the Noise and Land Use Compatibility Standards shown in Figure 9-1, in the noise level performance standards in Table 9-1 and the projected future noise contours for the General Plan shown in Figure 9-3 and detailed in Table 9-2, as a guide for future planning and development decisions.
- **Policy NOI-1.2:** Minimize noise impacts on noise-sensitive land uses. Noise-sensitive land uses include residential uses, retirement homes, hotel/motels, schools, libraries, community centers, places of public assembly, daycare facilities, churches, and hospitals.
- **Policy NOI-1.3:** Limit noise impacts on noise-sensitive land uses to noise level standards as indicated in Table 9-1.
- **Policy NOI-1.8:** During all phases of construction activity, reasonable noise reduction measures shall be utilized to minimize the exposure of neighboring properties to excessive noise levels.
    a. Construction activities shall comply with the City's noise ordinance.
- **Policy NOI-1.12:** Ensure consistency with the noise compatibility policies and criteria contained in the San Carlos Airport Land Use Plan.
- **Action NOI-1.4:** Require the evaluation of mitigation measures for projects that would cause the following criteria to be exceeded or would cause a significant adverse community response:
    a. Cause the Ldn at noise-sensitive uses to increase by 3 dB or more and exceed the "normally acceptable" level.
    b. Cause the Ldn at noise-sensitive uses to increase 5 dB or more and remain "normally acceptable."
    c. Cause noise levels to exceed the limits in Table 9-1.

Table 9-1 of the City's General Plan is presented below in Table 3-10. Only land uses relevant to the proposed project are shown.

Table 3-10: San Carlos General Plan Non-Transportation Noise Standards

Land Use Receiving the Noise	Hourly Noise-Level Descriptor	Exterior Noise-Level Standard in Any Hour (dBA)		Interior Noise-Level Standard in Any Hour (dBA)	
		Daytime (7AM – 10PM)	Nighttime (10PM – 7AM)	Daytime (7AM – 10PM)	Nighttime (10PM – 7AM)
Residential	Leq	55	45	40	30
	Lmax	70	60	55	45

Source: City of San Carlos 2009, Table 9-1

Notes:

1. The Residential standards shall apply to all residentially zoned properties.
2. Each of the noise levels specified above shall be lowered by 5 dBA for tonal noises characterized by a whine, screech, or hum, noise consisting primarily of speech or music, or reoccurring impulsive noises.
3. In situations where the existing noise level exceeds the noise levels indicated in the above table, any new noise source must include mitigation that reduces the noise level of the noise source to the existing level.
4. The exterior noise standards are measured at any point on the receiving property where there is, or could be in the future, frequent human use and quiet would be beneficial.
5. These standards do not apply to temporary sources such as construction activities.

3.13.3 Discussion

Would the project result in:

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards?

Less than Significant Impact. Construction and operation of the proposed project would not result in a temporary or permanent increase in ambient noise levels in the vicinity of the project site that are in excess of standards established in the City's General Plan or Noise Ordinance, nor would it conflict with other applicable local, state, or federal standards.

Short-term, Temporary Construction Noise Levels

As described in Section 2.3, construction of the proposed project is anticipated to take approximately 22 months. The highest noise levels would occur during the first approximately eight months, during which time site preparation (tree and vegetation, hardscape removal), and grading would occur. These more intensive period of construction would require the use of heavy-duty off-road equipment (e.g., backhoes, graders, excavators, etc.) for the removal of trees and other debris from the site as well as grading and earthmoving activities. Construction activities during approximately the first eight months are anticipated to be loudest at the sensitive receptor locations immediately adjacent to the main portion of the project site (i.e., where the nine single-family homes would be constructed), including existing residences on Highland Court, Highland Avenue, Alta Lane, Spring Valley Way, and Phelps Road, as well as the student receptors at Arundel Elementary School. As construction progresses and transitions into vertical building development, paving, and finishing activities, noise levels for the remainder of construction activities (i.e., the remaining 14 months) would be lower at these locations.

The proposed project would also involve improvements to Sheldon Avenue. These activities would include site preparation, grading, and paving of this existing linear portion of project. During construction activities associated with this project component, receptors along Highland Court, Highland Avenue, Dartmouth Avenue, Garden Lane, and Shelford Avenue would be exposed to construction noise.

In addition to construction noise generated by on-site activities (i.e., both within the main portion of the project site and along Sheldon Avenue), haul trucks would be required to remove excess soil from the site, and vendor trips would be required to import various building materials to the site (e.g., concrete, lumber, and other building materials). These haul and vendor trucks are anticipated to primarily travel on Phelps Road.

Typical noise levels that could be generated by equipment at the site are presented below in Table 3-11.

Table 3-11: Typical Construction Equipment Noise Levels

Equipment	Noise Level at 50 feet (Lmax)(A)	Percent Usage Factor(B)	Predicted Equipment Noise Levels (Leq)(C)					
			50 Feet	100 Feet	150 Feet	200 Feet	250 Feet	300 Feet
Backhoe	80	40	76	70	66	64	62	60
Bulldozer	85	40	81	75	71	69	67	65
Concrete/ industrial saws	90	20	83	77	73	71	69	67
Compactors	80	20	73	67	63	61	59	57
Excavator	85	40	81	75	71	69	67	65
Front end loader	80	40	76	70	66	64	62	60
Grader	85	40	81	75	71	69	67	65
Paver	85	50	82	76	72	70	68	66
Pneumatic tools	85	50	82	76	72	70	68	66
Delivery truck	85	40	81	75	71	69	67	65
Vibratory Roller	80	20	73	67	63	61	59	57

Sources: Caltrans, 2013; FHWA, 2010

(A) L_{max} noise levels based on manufacturer's specifications.

(B) Usage factor refers to the amount (percent) of time the equipment produces noise over the time period

(C) Estimate does not account for any atmospheric or ground attenuation factors. Calculated noise levels based on Caltrans, 2009: L_{eq} (hourly) = L_{max} at 50 feet – 20log (D/50) + 10log (UF), where: L_{max} = reference L_{max} from manufacturer or other source; D = distance of interest; UF = usage fraction or fraction of time period of interest equipment is in use.

The highest noise level associated with a piece of equipment that would be used during project construction would be associated with the use of concrete/industrial saws. As shown in Table 3-11, the worst case Leq and Lmax construction equipment noise levels associated with the operation of this piece of equipment would be approximately 83 dBA Leq and 90 dBA Lmax at at distance of 50 feet. Concrete/industrial saws would primarily be used for the purposes of removing trees and breaking various materials up into smaller pieces for easier transport and removal. They would be used in various locations within the project site, as needed, based on the location(s) of where trees and other materials would need to be broken down. Other common pieces of equipment that would require use during construction activities would be backhoes/loaders, graders, and excavators. A grader and exacator operating in proximity of one another at a distance of 50 feet would produce individual noise levels of approximately 81 dBA Leq and combined noise levels of approximately 84 dBA Leq.

These are considered to be worst-case noise levels, as the actual magnitude of the project's temporary and periodic increase in ambient noise levels would depend on the nature of the construction activity (e.g., tree removal, grading the site, etc.) and the distance between the construction activity and receptor areas. As noted previously, construction noise levels are anticipated to be highest during approximately the first eight months, because those construction activities would demand the greatest use of large off-road equipment that would temporarily operate near project boundaries as the site is prepared. Once vertical building development is initiated, construction activities would be more concentrated toward the middle

of the site where the nine single-family homes would be erected. These construction activities would take place approximately 150 feet or more from most sensitive receptor locations. Noise levels associated with the operation of a forklift (e.g., to move building materials into place, considered to be similar in nature to a front-end loader in terms of noise) would produce a noise level of approximately 66 dBA Leq at a distance of 150 feet.

Construction noise would be intermittent, occurring only when equipment is in operation. Consistent with a condition of approval for the project and Municipal Code Section 9.30.070-B, construction activities at the site would only occur between the hours of 8:00 a.m. and 6:00 p.m. Monday through Friday, and between 9:00 a.m. and 5:00 p.m. on Saturdays and Sundays. Construction activities would not occur on holidays. The noise generated from project construction would be temporary (construction would last approximately 22 months, with the loudest noise generation occurring over 8 months) and would not produce the same sound levels every day. Construction activities would occur within the permissible timeframes identified in the City's Municipal Code and, therefore, would not conflict with any applicable standards.

Land Use Compatibility

Figure 9-1 in the City's General Plan Noise Element provides land use and noise compatibility standards for various land uses in the City. For single family residential land uses, noise levels under 60 dBA Ldn are considered "Normally Acceptable". As discussed above in Environmental Setting, the project site would have a similar noise environment to the residential area measured at ST-4 with an ambient noise environment of 50.0 dBA L_{eq}. This measurement was captured during the daytime and noise levels during the evening and nighttime hours are anticipated to be lower. Thus, the 24-hour ambient noise environment at the project site is anticipated to be much lower than 60 dBA Ldn. The project, therefore, would be located in a noise environment that is appropriate for its designated use.

Long-term Operational Noise Levels

Once operational, the proposed project would generate noise from vehicular activity (e.g., cars driving to and from the site) and stationary sources (e.g., heating, ventilation, and air conditioning (HVAC) equipment).

Although it is anticipated that additional noise would be generated at the site under operation of the proposed project, it would not adversely increase the noise environment. The project is a residential use at a site surrounded by other residential uses. The types of operational noise under buildout of the project (e.g., motor vehicle operation, HVAC equipment, etc.) would be similar to those that are generated by the existing residential land uses surrounding the project site. The project, therefore, would not result in a substantial, permanent increase in noise levels in proximity of the proposed project.

Policies NOI-1.2 and NOI-1.3 contained in the City's General Plan Noise Element require projects to minimize noise impacts on noise-sensitive land uses, including residential uses. The project would consist of residences with low operational noise, which would not alter the noise environment of the surrounding residential area. Because of this, and the fact that the proposed project would not result in substantial, permanent increase in noise levels in proximity of the project site, the proposed project would not conflict with any applicable noise standards. This impact would be less than significant.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less Than Significant Impact. Vibration is the movement of particles within a medium or object such as the ground or a building. As is the case with airborne sound, groundborne vibrations may be described by amplitude and frequency. Vibration amplitudes are usually expressed in peak particle velocity (PPV) or root mean squared, in inches per second (in/sec). PPV represents the maximum instantaneous positive or negative peak of a vibration signal and is most appropriate for evaluating the potential for building damage. Human response to

groundborne vibration is subjective and varies from person to person. Caltrans' Transportation and *Construction Vibration Guidance Manual* provides a summary of vibration criteria that have been reported by researchers, organizations, and governmental agencies (Caltrans, 2018). Chapters six and seven of this manual summarize vibration detection and annoyance criteria from various agencies and provide criteria for evaluating potential vibration impacts on buildings and humans from transportation and construction projects. These vibration criteria are summarized in Table 3-12 and Table 3-13.

Table 3-12: Caltrans' Vibration Criteria for Building Damage

Structural Integrity	Maximum PPV (in/sec)	
	Transient	Continuous
Extremely fragile buildings, ruins, monuments	0.12	0.08
Fragile buildings	0.2	0.1
Historic and some older buildings	0.50	0.25
Older residential structures	0.50	0.30
New residential structures	1.00	0.50
Modern industrial and commercial structures	2.00	0.50
Source: Caltrans, 2018		

Table 3-13: Caltrans' Vibration Criteria for Human Response

Human Response	Maximum PPV (in/sec)	
	Transient	Continuous
Barely perceptible	0.035	0.012
Distinctly perceptible	0.24	0.035
Strongly perceptible	0.90	0.10
Severely perceptible	2.00	0.40
Source: Caltrans, 2018		

Development of the proposed project would not require rock blasting, or pile driving, but could require use a vibratory roller, small bulldozer, and loaded trucks. Construction activities that use vibratory rollers and bulldozers would be mobile and not operating at the same location for a prolonged period of time; therefore, the *transient* criteria is used. This equipment may operate within 50 feet of residences surrounding the project site. To evaluate potential impacts, the *New Residential Structures* criteria is used. As shown in Table 3-14, the operation of a vibratory roller could generate groundborne vibration of approximately 0.098 in/sec PPV at a distance of 50 feet. Based on the criteria summarized in Table 3-12, this would not cause damage to any structures.

Table 3-14: Groundborne Vibration Estimates

Equipment	Reference PPV at 25 feet (inches/second)	Reference Lv at 25 feet (dBV)	Estimated PPV at 50 feet (inches/second)	Estimated Lv at 50 feet (dBV)
Vibratory roller	0.21	94.0	0.098	85.0
Large bulldozer	0.089	87.0	0.042	78.0
Small bulldozer	0.003	58.0	0.014	49.0
Loaded truck	0.076	86.0	0.035	77.0
Jackhammer	0.035	79.0	0.016	70.0

Source: Caltrans, 2018, FTA, 2006.

Notes: Estimated PPV calculated as: PPV(D)= PPVref*(25/D)^1.1 where PPV(D)= Estimated PPV @ Distance, PPVref=Reference PPV @ 25 feet, D=Distance from equipment to receiver, and 1.1=ground attenuation rate

Estimated Lv calculated as: Lv(D)=Lv(25 feet)-30log(D/25) where Lv(D)=velocity level in decibels, and v=RMS velocity amplitude @ 25 feet

Although some construction activities may generate groundborne vibration that is slightly perceptible (i.e., between barely perceptible and distinctly perceptible thresholds for transient sources shown in Table 3-13), this impact would be less than significant for a number of reasons. First, equipment that have the potential to generate groundborne vibration would be mobile, meaning that they would not operate at the same location and expose a potential receptor to vibration for a prolonged amount of time. Second, equipment is unlikely to operate near the property boundary on a frequent basis. Instead, the equipment would likely be used on the interior of the site where the majority of development would occur. Finally, equipment operation that could generate groundborne vibration would be short-term, since the vibratory roller, which would have the highest vibration levels, would be used during the paving phase, which is anticipated to last approximately a couple of months. Other activities, such as site preparation and grading that would require equipment such as a bulldozer and loaded truck, would have lower vibration levels than the vibratory roller and are only anticipated to be required near the project boundaries during limited period over the first eight months. As such, the proposed project would not generate excessive groundborne vibration or groundborne noise levels. This impact would be less than significant.

c) For a project located within the vicinity of a private airstrip or 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?

Less than Significant Impact. The project site is approximately 1.3 miles from the runway of the San Carlos Airport and is located outside of the San Carlos Airport Land Use Compatibility Plan (ALUCP) area (C/CAG, 2015) and outside of the 55 CNEL contour (San Carlos 2009). The proposed project would not expose people working at the project site to excessing noise levels. This impact would be less than significant.

3.13.4 References

California Department of Transportation (Caltrans) 2013. *Technical Noise Supplement to the Traffic Noise Analysis Protocol.* Sacramento, California. September 2013.

_____2018. *Transportation and Construction Vibration Guidance Manual*. Sacramento, California. April 2018.

City/County Association of Governments of San Mateo County (C/CAG) 2015. *Comprehensive Airport Land Use Compatibility Plan for the Environs of San Carlos Airport,* Exhibits 4-3, *San Carlos Airport Safety Zones*, on page 4-16 and 4-4, *San Carlos Airport Part 77*

Airspace Protection Surfaces on page 4-31, and Table 2-4, *Safety Compatibility Criteria on* p. 4-25. Adopted October 2015.

City of San Carlos (San Carlos) 2009. 2030 General Plan Noise Element. Adopted October 12, 2009.

_____2022. City of San Carlos Focused General Plan Update Draft Environmental Impact Report. October 2022.

U.S. Federal Transit Administration (FTA) 2006. *Transit Noise and Vibration Assessment*. FTA-VA-90-1003-06. Washington, DC. May 2006.

3.14 POPULATION AND HOUSING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Induce a substantial unplanned 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)?	☐	☐	☒	☐
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

3.14.1 Environmental Setting

The project site is largely undeveloped. The site previously contained two single-family residences and associated structures that were recently demolished under a separate action in advance of the project. There are no facilities that support employment at the site.

3.14.2 Discussion

Would the project:

a) Induce substantial unplanned 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)?

Less than Significant Impact. The project includes residential development that would directly increase population growth. The project would be anticipated to provide housing for an estimated 24 individuals based upon the U.S. Census Bureau's 2020 persons per household rate for San Carlos (2.69 persons per household) (U.S. Census Bureau 2022). The project would assist the City in meeting the housing goals established in the newly adopted (January, 2023) Housing Element, thus this project is not considered to be "unplanned growth". Additionally, the proposed project is not large enough to constitute substantial population growth locally or regionally.

According to estimates provided in the MTC/ABAG *Plan Bay Area 2040*, the City of San Carlos is estimated to generate approximately 2,800 new jobs between 2010 and 2040; the proposed project, therefore represents approximately nine percent of that total (MTC/ABAG, 2017). At most, the project would generate 24 new jobs in the City. Any new employment associated with the project residents would be minor and within the forecasted employment growth of San Carlos. As such, the proposed project's potential impact on growth grim new employment would also be less than significant.

The construction of the new emergency access road that would connect Spring Valley Way and Sheldon Avenue would serve only the proposed development. As such, the proposed project also does not include the construction of infrastructure or roads which could indirectly induce additional population growth. This impact would be less than significant.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The project site does not contain any residential units and would not displace housing or people. Therefore, the project would not displace any people or necessitating the construction of replacement housing elsewhere. No impact would occur.

3.14.3 References

Metropolitan Transportation Commission / Association of Bay Area Governments (MTC/ABAG) 2017. *Plan Bay Area 2040 Land Use Modeling Report.* July 2017. Accessed August 2, 2022 at http://2040.planbayarea.org/files/2020-02/Land_Use_Modeling_PBA2040_Supplemental%20Report_7-2017.pdf.

U.S. Census Bureau. 2022. QuickFacts for San Carlos city, California. Accessed July 28, 2022 at https://www.census.gov/quickfacts/fact/table/sancarloscitycalifornia/INC110220.

3.15 PUBLIC SERVICES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i) Fire protection?	☐	☐	☒	☐
ii) Police protection?	☐	☐	☒	☐
iii) Schools?	☐	☐	☒	☐
iv) Parks?	☐	☐	☒	☐
v) Other public facilities?	☐	☐	☒	☐

3.15.1 Environmental Setting

Public service providers in San Carlos that would serve the proposed project include the following:

- Redwood City-San Carlos Fire Departments (RC-SCFD), a joint powers and governmental agency, provides fire and emergency response services to the cities of San Carlos and Redwood City.
- The San Carlos Police Bureau, a division of the San Mateo County Sheriff's Office, provides police protection services in the City.
- The project site is within the boundaries of the San Carlos School District and the Sequoia Union High School District. The schools closest to the project site are Arundel Elementary School, located immediately south of the project site, and Charles Armstrong School, located approximately 0.56 miles northwest of the project site.
- The San Mateo County library district governs and administers 12 community libraries. The closest library to the project site is located at 610 Elm Street in San Carlos approximately 0.58 miles to the east.

3.15.2 Discussion

Would the project:

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service

ratios, response times or other performance objectives for any of the public services:

i) Fire protection?

ii) Police?

iii) Schools?

iv) Parks?

v) Other public facilities?

Less than Significant Impact (Responses i) through v)). The proposed project would have a significant environmental impact if it would exceed the ability of fire and emergency medical responders, law enforcement, school districts, and other public services to adequately serve the increase in population resulting from the project, thereby requiring construction of new facilities or modification of existing facilities, the construction of which could cause significant environmental impacts.

At capacity, the proposed project could result in approximately 24 new residents in the City based upon the U.S. Census Bureau's 2020 persons per household rate for San Carlos (2.69 persons per household) (U.S. Census Bureau 2022). Accordingly, the proposed project would generate additional jobs in San Carlos beyond what currently exists on the site. Although the relationship is not directly proportional, more intense uses of land typically result in the increased potential for fire and emergency incidents. While the project is not an intense use of land, the proposed project would create an increased demand for fire and police protection services.

Fire service delivery in San Mateo County is borderless and, therefore, other fire departments service other cities as needed. San Carlos Fire Station 13, which is owned by the City of San Carlos and operated by the Redwood City Fire Department under a contractual agreement between the City of Redwood City and the City of San Carlos, is the closest fire station to the project site at 0.62 miles away. While the proposed project could potentially increase the number and frequency of calls for service by the RC-SCFD from the population growth on the project site, because the project site would be located less than one mile from Fire Station 13, response times for many calls from the project site would be expected to fall within the RC-SCFD's response time goals.

Furthermore, while the proposed project would increase the number of persons and level of activity on the project site, given the project site is surrounded by existing residential land uses, it is reasonable to expect that the proposed project would not result in a meaningful increase in the amount of crime in the project vicinity. Accordingly, the effect that the proposed project would have on police response times is considered to be minimal. In addition, increases in demand for services would be offset through payment of development fees and annual taxes, a portion of which go toward ongoing provision of and improvements to public services. Therefore, considering the proposed project as a whole, proximity to Fire Station 13, and surrounded by residential land uses, constructing new or expanded facilities as a result of the construction and occupation of the proposed project would not be necessary to maintain acceptable service ratios, response times, or other performance objectives for fire and police protection services. Accordingly, proposed project impacts related to fire and police protection services would be less than significant.

The potential number of students generated by the proposed Project was calculated based on the student generation rate noted in Chapter 13 Public Services, Footnote 4, in the San Carlos Focused General Plan Update Draft EIR (2022) which referenced an elementary/middle (K-8) school student generation rate of 0.28 students per unit. Using this generation rate the proposed project would result in approximately three elementary school aged children. Using a high

school generation rate of 0.2 high school students per unit, the proposed project would result in approximately two new high school students. It should be noted that the ADUs were not included in these calculations as they are unlikely to generate any students given their anticipated small size. The project would not generate enough students to have substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or generate the need for new or physically altered governmental facilities. The project would have a less than significant impact on school services.

The residential population of the City would directly increase with implementation of the proposed project. However, the proposed project is not considered a regionally significant source of population growth. In addition, the project is not considered a regionally significant employer due to its size. Therefore, the proposed project would not result in a substantial indirect population increase such that parks and other governmental services would be affected by the proposed project. This impact would be less than significant.

3.16 RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) 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?	☐	☐	☒	☐
b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☒	☐

3.16.1 Environmental Setting

The City of San Carlos Department of Parks and Recreation is responsible for the maintenance of the City's 16 parks. The City of San Carlos has adopted a parkland dedication standard of 2.5 acres of parkland for every 1,000 residents. There are a total of approximately 62.5 acres of existing traditional developed parkland in San Carlos, or approximately 2.17 acres per 1,000 residents, based on an existing population of 28,857 people in 2008 (City of San Carlos 2009). Regional park facilities operated by the Midpeninsula Regional Open Space District (MROSD) and San Mateo County Parks could be used by residents of the project site. The closest MROSD parks to the site are Pulgas Ridge Open Space, located approximately immediately west of Crestview Drive, 1.7 miles away, Purisima Creek Redwoods, located 5.15 miles away, and Teague Hill, located 5.2 miles away. San Mateo County Parks manages over 10 parks and recreation areas. The closest is Edgewood County Park immediately south of the City on Edgewood Road, largest is the 8,020-acre Pescadero Creek Park, located approximately 16 miles south of San Carlos. The California Department of Fish and Wildlife runs Bair Island, a 1,985-acre Ecological Preserve within the Don Edwards National Wildlife Refuge, located adjacent to the San Carlos in the wetlands of San Francisco Bay. Open space areas within San Carlos includes Big Canyon Park, Eaton Park, and land designated as open space in the General Plan.

3.16.2 Discussion

Would the project:

a) Increase the use of existing neighborhood or regional parks or other recreational facilities such that significant physical deterioration of the facility would occur or be accelerated?

b) Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Less than Significant Impact (Responses a and b). The proposed project would increase the number of persons and level of activity of the project site in comparison to existing uses. The is anticipated to increase the City's population by 24 residents. Therefore, the proposed project would not result in a substantial indirect population increase such that the use of any existing neighborhood and regional parks or other recreational facilities would be increased. Due to the immediate proximity of the site to Arguello Park, project residents would be expected to use this park facility. In addition, there are other parks and recreation facilities within approximately half

a mile of the project site, such as Hillcrest Circle Park, Chilton Park, Stadium Field, and Highlands Park Field, that project residents would be anticipated to visit. It is anticipated that increased use of these and other local parks and recreational facilities would be minimal due to the small size of the project. As such, the project would not cause significant deterioration of a recreational facility to occur. Therefore, impacts on the City's recreational facilities would be less than significant.

Future residents of the proposed project are anticipated to use park and recreational facilities. However, increased use of park and recreational facilities from the proposed project would be minimal due to the project's minor estimated population growth (approximately 24 residents). Therefore, the proposed project would not result in substantial deterioration or trigger the construction of new built facilities over and beyond foreseen in the long-range planning completed for the regional park facilities of the project site. This impact would be less than significant.

3.16.3 References

City of San Carlos. 2009. San Carlos 2030 General Plan. October 2009. Accessed August 10, 2022 at https://www.cityofsancarlos.org/government/departments/community-development/planning/plans-document-library/general-plan.

3.17 TRANSPORTATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☐	☐	☒
b) Conflict or be inconsistent with CEQA Guidelines section 15064.3(b), which pertains to vehicle miles travelled?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☒	☐	☐
d) Result in inadequate emergency access?	☐	☒	☐	☐

Hexagon Transportation Consultants prepared a Vehicle Miles Traveled (VMT) and traffic circulation analysis, which address potential transportation impacts that could occur under implementation of the proposed project. The VMT and traffic circulation analysis is titled "VMT and Traffic Circulation Analysis for the Proposed Residential Development at 308-310 Phelps Road in San Carlos, California," and dated February 3, 2022. The VMT and Traffic Circulation Analysis has been included as Appendix C of this Initial Study.

3.17.1 Environmental Setting

The project site would be accessible from Phelps Road and Spring Valley Road (Hexagon 2022). Phelps Road is a two-lane public road that has an advisory speed of 15 miles per hour (mph) near the project site. Adjacent to the project site, Phelps Road provides access to a parking lot for Arundel Elementary School. In the vicinity of the project site, there is an existing sidewalk along the east side of Phelps Road and there are crosswalks and curb ramps on each leg/corner of the unsignalized intersection of Phelps Road/Arundel Road. The west leg of the Phelps Road/Arundel Road intersection provides access to a drop-off loop for the elementary school. Spring Valley Road is a two-lane private road that provides access to the nearby residential homes. Phelps Road also provides access to Arguello Park and the Silicon Valley Tennis facility.

Prior to July 1, 2020, LOS standards, or the amount of delay automobiles would cause, were commonly used by Lead Agencies to assess transportation impacts. Pursuant to Senate Bill (SB) 743, the California Environmental Quality Act (CEQA) 2019 Update Guidelines Section 15064.3, subdivision (b) states that VMT will be the metric in analyzing transportation impacts for land use projects for CEQA purposes (Hexagon 2022). VMT is the total miles of travel by personal motorized vehicles a project is expected to generate in a day. VMT measures the full distance of personal motorized vehicle-trips with one end within the project.

3.17.2 Discussion

Would the project:

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

No Impact. The proposed project would not conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. As described under response b) the proposed project would be consistent with the City's VMT policy.

Two of the proposed single-family homes would be accessible via Phelps Road, and the remaining seven single family homes would be accessible via Spring Valley Road. The two proposed homes adjacent to Phelps Road would add a minimal number of new trips to Phelps Road. The project VMT and traffic circulation analysis concluded these new trips on Phelps Road would not have an adverse effect on the operations of the Arundel Elementary School parking lot (Hexagon 2022). At the intersection of Phelps Road/Arundel Road, the new trips added by the project would not be noticeable. During the AM and PM peak hours the project would add 6 vehicle trips and 8 vehicle trips, respectively, to this intersection, which equates to one vehicle every 8 to 10 minutes during the peak periods. This additional traffic would not have an adverse effect on the school traffic. In addition, since the intersection of Phelps Road/Arundel Road is an all-way stop with crosswalks on each leg, the project's effect on pedestrian traffic at this intersection would be negligible (Hexagon 2022).

In addition, vehicular parking provided by the project would be consistent with City Standards (see Section 3.11.2). The project would provide a total of 41 parking spaces, including 36 residence parking spaces and five shared guest parking spaces. The proposed project would not conflict with a program, plan, ordinance, or policy addressing the City's circulation system. No impact would occur.

b) Conflict or be inconsistent with CEQA Guidelines section 15064.3(b), which pertains to vehicle miles travelled?

Less Than Significant Impact. The San Carlos VMT policy states that small projects that would generate fewer than 100 daily trips can be assumed to have a less than significant impact on VMT. According to the project VMT and traffic circulation analysis, based on the Institute of Transportation Engineers' (ITE) *Trip Generation Manual, 11th Edition* (2021) rates published for "Single-Family Detached Housing" (ITE Land Use 210) the proposed project would generate 85 daily vehicle trips (see Table 1 of the Hexagon Report in Appendix C) (Hexagon 2022). Since the estimated daily trips of 85 trips is less than the threshold of 100 daily trips, the proposed project can be presumed to have a less than significant impact on VMT. Hexagon notes the VMT analysis is based on the gross project trips of 85 daily vehicle trips; however, with trip credits for the existing single-family homes on-site the project would generate 66 new daily vehicle trips, with 5 trips occurring during the AM peak hour and 6 trips occurring during the PM peak hour. This impact would be less than significant.

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

Less Than Significant Impact with Mitigation. The proposed project would not increase hazards due to a geometric design feature or incompatible uses. The project is required to comply with City requirements for roadway construction, including ensuring adequate sight distances for vehicles using project roadways. Project compliance with City standard specifications for roadways and driveways would ensure the proposed project would not increase hazards due to a geometric design feature. The project would not involve incompatible uses that would substantially increase hazards, as the proposed project is a residential development that would be located in a developed residential neighborhood. This impact would be less than significant.

Project construction related traffic (including worker vehicles and large trucks) would interact with other vehicles, bicyclists, as well as pedestrians accessing the adjacent residences, Arundel Elementary School, the tennis facility, and Arguello Park and could create traffic safety

hazards. During the construction period, trucks delivering materials and equipment would travel to and from the project site along local streets in San Carlos, including Phelps Road, San Carlos Avenue, El Camino Real, and Holly Steet. The presence of slow-moving, large construction vehicles could obstruct passenger vehicle drivers' field of vision and make turns or passing more hazardous for all roadway users. The creation of potential traffic safety hazards as a result of project construction would be a significant impact. The City requires approval of a Construction Management Plan as part of the project. Implementation of the construction traffic control measures as identified in Mitigation Measure TRA-1 would reduce project construction traffic safety impacts to a less-than-significant level.

Impact TRA-1: Project construction related vehicles and equipment would interact with other vehicles, bicyclists, and pedestrians accessing the adjacent residences and Arundel Elementary School and could create traffic safety hazards.

Mitigation Measure TRA-1: Traffic Control Plan. The Applicant or its contractor(s) shall prepare and implement a traffic control plan to reduce traffic impacts on the roadways at and near the work site, as well as to reduce potential traffic safety hazards and ensure adequate access for emergency responders and construction vehicles, as appropriate. To the extent applicable, the traffic control plan shall conform to the California Manual on Uniform Traffic Control Devices (MUTCD), Part 6 (Temporary Traffic Control) (Caltrans 2014). The traffic control plan shall include, but not be limited to, the following elements:

- Circulation and detour plans to minimize impacts on local road circulation during road and lane closures. Flaggers and/or signage shall be used to guide vehicles through and/or around the construction zone.
- Identifying truck routes designated by the City. Haul routes that minimize truck traffic on local roadways shall be utilized to the extent possible.
- Sufficient staging areas for trucks accessing construction zones to minimize disruption of access to adjacent public right-of-ways.
- Designate on-site parking for construction workers to avoid or minimize construction parking on public streets.
- Controlling and monitoring construction vehicle movement through the enforcement of standard construction specifications by on-site inspectors
- Scheduling truck trips outside the peak morning and evening commute hours and Arundel Elementary School drop-off and pick-up times to the greatest extent possible.
- Limiting the duration of road and lane closures to the extent possible.
- Ensuring safe and continuous vehicular, pedestrian and bicycle access to Arundel Elementary School and Arguello Park, Silicon Valley Tennis Club, and local residents on Phelps Road, Spring Valley Way and the surrounding neighborhoods.
- Implementing roadside safety protocols. Advance "Road Work Ahead" warning and speed control signs (including those informing drivers of State legislated double fines for speed infractions in a construction zone) shall be posted to reduce speeds and provide safe traffic flow through the work zone.
- Ensure continuous access for mail and/or delivery services.
- Coordinating construction administrators of emergency service providers (including all fire protection agencies), and recreational facility managers. Operators shall be notified at least one month in advance of the timing, location, and duration of construction activities and the locations of detours and lane closures, where applicable. All roads shall remain passable to emergency service vehicles at all times.

- Repairing and restoring affected roadway rights-of-way to their original condition after construction is completed.

  Effectiveness: This measure would reduce traffic impacts to less than significant.

  Implementation: by Applicant or its Contractor

  Timing: Prior to (preparation of construction traffic management plan) and during construction (implementation of the plan).

  Monitoring: The construction traffic management plan shall be included in final project design and construction documents.

d) Result in inadequate emergency access?

Less than Significant with Mitigation Incorporated. The proposed project would have a driveway off Phelps Road to provide emergency access to three of the proposed residences. The project would also construct a new emergency access road between Sheldon Avenue and Spring Valley Way. This emergency access road, in addition to the proposed extension of Spring Valley Way, would provide for emergency vehicle access throughout the project site, meeting the Safety Element requirements for two points of ingress/egress.

The project is required to meet all fire access requirements for emergency access. If fire access requirements cannot be met, then the applicant must obtain approval of an Alternate Means and Method Review (AMMR) from the Fire Department. As proposed, the project does not meet the Redwood City-San Carlos Fire Department's (RC-SCFD) standards for minimum roadway width (20-foot minimum) for paving the existing dirt road at Sheldon Avenue and maximum roadway slopes (10 percent) at several points along the proposed Spring Valley Way extension. The project applicant has stated the existing dirt road that is Sheldon Avenue cannot measure at least 20 feet in width along its entire length due to constraints of the existing topography, including steep slopes, native rock formations, and mature trees. Similarly, maximum 10 percent slopes cannot be achieved along the entire length of the proposed Spring Valley Way extension due to constraints of the existing topography, including steep slopes, native rock formations, and proximity to neighboring developments. The project applicant has submitted an application for Alternative Means or Materials Request (AMMR) Consideration to the RC-SCFD to request an exception to the RC-SCFD minimum roadway width and maximum roadway slope standards. The project applicant proposes to offset the violation of RC-SCFD roadway standards by paving the entirety of Sheldon Avenue and widen Sheldon Avenue where possible to serve as a fire apparatus access road with two points of entry (Spring Valley Way and Wellington Street). The project would also install an additional fire hydrant on Sheldon Avenue for a total of four new fire hydrants provided by the project. While the proposed roadways would not meet the RC-SCFD's roadway standards for roadway width (Sheldon Avenue) and maximum slope (Spring Valley Way extension), the project applicant has proposed site features that would ensure adequate emergency access, including providing two points of site ingress/egress, constructing a fire access road, and fully paving Sheldon Avenue, and submitted an AMMR request for RC-SCFD approval. As of the release of this document, the project's AMMR request has not been approved. The approval of the project's AMMR request is included below as Mitigation Measure TRA-2. Approval of the project's AMMR request per Mitigation Measure TRA-2 would ensure the project has less than significant emergency access impacts.

Impact TRA-2: The project does not meet the Redwood City-San Carlos Fire Department's (RC-SCFD) standards for minimum roadway width (20-foot minimum) for paving the existing dirt road at Sheldon Avenue and maximum roadway slopes (10 percent) at several points along the proposed Spring Valley Way extension.

Mitigation Measure TRA-2: Emergency Access. The project shall meet all fire access requirements for emergency access or obtain approval of an Alternate Means and Method Review (AMMR) from the RC-SCFD prior to final site plan approval.

Effectiveness: This measure would reduce emergency access impacts to less than significant.

Implementation: By Applicant

Timing: Prior to final site plan approval.

Monitoring: RC-SCFD approval of emergency access shall be incorporated into final project design and construction documents.

3.17.3 References

Hexagon Transportation Consultants (Hexagon). 2022. VMT and Traffic Circulation Analysis for the Proposed Residential Development at 308-310 Phelps Road in San Carlos, California. February 3, 2022.

3.18 TRIBAL CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a tribal cultural resources, defined in Public Resources Code section 21074 as either a site, feature, place cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?	☐	☒	☐	☐
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.	☐	☒	☐	☐

3.18.1 Environmental Setting

Assembly Bill (AB) 52 requires the CEQA lead agency consult with a California Native American Tribe that is traditionally and culturally affiliated with the geographic area of the proposed project if the Tribe requests, in writing, to be informed by the lead agency through formal notification of the proposed projects in the area. The consultation is required before the determination of whether a negative declaration, mitigated negative declaration, or EIR is required. In addition, AB 52 includes time limits for certain responses regarding consultation. AB 52 also adds “tribal cultural resources” (TCRs) to the specific cultural resources protected under CEQA. CEQA Section 21084.3 has been added, which states that “public agencies shall, when feasible, avoid damaging effects to any tribal cultural resources.” Information shared by tribes as a result of AB 52 consultation shall be documented in a confidential file, as necessary, and made part of a lead agencies administrative record. In response to AB 52, the City of San Carlos has not received any request from any Tribes in the geographic area with which it is traditionally and culturally affiliated with or otherwise to be notified about projects in the City of San Carlos.

A TCR is defined under AB 52 as a site, feature, place, cultural landscape that is geographically defined in terms of size and scope, sacred place, and object with cultural value to a California Native American tribe that are either included or eligible for inclusion in the California Register of Historic Resources or included a local register of historical resources, or if the City of San Carlos, acting as the lead agency, supported by substantial evidence, chooses at its discretion to treat the resource as a TCR.

3.18.2 Discussion

Would the project:

a) Cause a substantial adverse change in the significance of a tribal cultural resources, defined in Public Resources Code section 21074 as either a site, feature, place cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe?

Less Than Significant Impact with Mitigation Incorporated (Responses i) and ii)). As discussed under criteria (b) and (c) in Section 3.5, Cultural Resources, no known archeological resources, ethnographic sites, or Native American remains are located on the project site. A Sacred Lands File (SLF) record search with the Native American Heritage Commission (NAHC) was conducted on March 17, 2022. The SLF records search results were negative, meaning there is no site-specific information in the SLF. Native American tribes who may have knowledge of cultural resources in the project area were contacted on March 6, 2022. To date, no Native American tribal representatives have responded to the project outreach to tribal contacts. A California Historical Resources Information System (CHRIS) search with the Northwest Information Center (NWIC) was conducted on March 2, 2022 (NWIC 2022). The CHRIS search results indicate there are no known cultural resources on or within ¼-mile of the project site. There are no records of cultural resources reports within the project area. Two cultural resources reports (S-029495 & S-037535) were previously completed for locations within ¼-mile of the project area. As such, there are no known cultural resources on the project site.

As discussed under criteria (b) and (c) in Section 3.5, ground-disturbing activities associated with development under the proposed project could have the potential to uncover and damage or destroy unknown resources, including tribal cultural resources, where soil disturbance has not previously occurred. The City would implement Mitigation Measures CUL-1 and CUL-2 to reduce these potential impacts. Implementation of these Mitigation Measures, which further reinforces compliance with State and federal regulations, would reduce the likelihood of disturbing or discovering human remains, including those of Native Americans. This impact would be less than significant with mitigation incorporated.

3.18.3 References

NAHC. 2022. Unpublished letter containing search results from Sacred Lands File search. Kept on file at NAHC and with MIG. Inc.

NWIC. 2022. NWIC File No.: 21-1204. Letter containing search results from California Historical Resources Information System records search. Kept on file at NWIC and with MIG. Inc.

3.19 UTILITIES AND SERVICE SYSTEMS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

3.19.1 Environmental Setting

Water Supply

California Water Service Company provides water service to the City of San Carlos. The project would be served by the California Water Service Company. Water supply and demand information is provided in the 2020 Urban Water Management Plan (UWMP) for Cal Water's Mid-Peninsula District (MPD). Cal Water purchases its entire Mid-Peninsula District water supply from the City and County of San Francisco's Regional Water System (RWS) operated by the San Francisco Public Utilities Commission (SFPUC). San Francisco's RWS supplies consist of surface water imported from the Sierra Nevada near the Hetch Hetchy project and local surface water from the San Francisco Bay Region (Cal Water 2021b). Cal Water's total Individual Supply Guarantees (ISG) for its three districts, including the MPD, is 35.68 mgd.

Sanitary Sewer Service

Sanitary sewer service would be provided by the City of San Carlos and treated at the Silicon Valley Clean Water (SCVW) Wastewater Treatment Plant (WWTP) located in the Redwood Shores area of Redwood City. The treatment plant processes all wastewater delivered to the plant from member agencies service areas. SVCW 2020 Capital Improvement Program (CIP) Update identifies projects to improve its treatment plant and conveyance system including remote pump stations, transmission sewer pipelines, and effluent outfall. Future treatment for nutrients is also included (SVCW 2020). The treatment plant has capacity to treat 29.5 million

gallons per day (mgd) and currently receives approximately 20 mgd from residential and commercial customers in the SVCW service area.

Utilities and Services

Electricity and natural gas would be provided to the project site by Peninsula Clean Energy (PCE) and Pacific Gas and Electric (PG&E), respectively. PCE is San Mateo County's Community Choice Aggregate (CCA), a community-controlled, not-for-profit joint powers agency. PCE procures the sources of electricity throughout San Mateo County, while PG&E manages and maintains the electrical infrastructure used to supply consumers with electricity.

Stormwater Management

The City of San Carlos provides stormwater drainage service to the project site. The City maintains approximately 27 miles of stormwater drainage channels and 680 stormwater drainage inlets. Developers and property owners are responsible for extending the existing stormwater drainage system onto a property and tying into the City's stormwater infrastructure when new development occurs.

3.19.2 Discussion

Would the project:

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?

Less than Significant Impact. The project site is in a developed area served by existing utilities, and no new or expanded off-site facilities would be required to serve the project. The proposed project would require new connections to existing off-site utilities infrastructure as described below and in Section 2.2.6. Installation of these new connections and on-site facilities could result in short-term environmental effects during construction. However, there would be no impacts over the long term and required conditions of approval (COAs), best management practices (BMPs), and mitigation measures described in other sections of this IS checklist would avoid or minimize potentially significant impacts during construction.

Water Supply

Implementation of the proposed project would require the installation of a 10" main in Spring Valley Way and proposed extension, three fire hydrants and associated laterals, and domestic supply laterals as described in Section 2.2.6 and Section 3.19.1 No other new or expanded water facilities would be required for the project.

Sanitary Sewer Service

Implementation of the proposed project would require the installation of a new 8" sanitary sewer main in the Spring Valley Way extension, 8" lateral connections from the new Spring Valley Way sewer main to Lots 1 through 7, a new sanitary sewer main in Phelps Road and the new driveway, lateral connections to the new main in the new driveway, and sanitary sewer manholes. as described in Section 2.2.6 and Section 3.19.1. No other new or expanded wastewater facilities would be required for the project. The wastewater treatment facility that would serve the site, the SVCW WWTP, has sufficient capacity to serve the project, and no new or expanded wastewater treatment facilities are required (see response to criterion c).

Stormwater Management

The project would not require any new or expanded off-site stormwater drainage facilities. The project is subject to compliance with the requirements of the San Mateo County Storm Water Pollution Prevention Program (SWPPP), and a project specific SWPPP would be prepared to

ensure that contaminants do not enter the water system. To meet C.3 requirements, stormwater runoff from the site would be directed to a bioretention treatment area that allows for the cleansing and infiltration of stormwater before draining to the City's storm drain system (see Figure 2-12). The proposed bioretention treatment area would be constructed between the Phelps Road and the new driveway. 12-inch storm drain lines would be constructed to convey filtered stormwater runoff from the bioretention treatment areas to a new 12-inch storm drain main in Spring Valley Way and an existing storm drain main in Phelps Road. The project would also construct drainage swales throughout the site to direct runoff toward the new stormwater catch basins.

The project site would be split into six drainage management areas (DMAs), one of which would contain the 1,830-square-foot bioretention area. The project would result in a 25,240-square-foot net increase in impervious surface area onsite. Runoff generated by the new fire access road would be managed and treated in four DMAs. The fire access road would result in a 3,600-square-foot net increase in impervious surface area compared to existing conditions.

The on-site stormwater treatment and retention infrastructure would have beneficial effects to the environment in the long-term by reducing the amount of runoff water and pollutants exiting the site.

Electric Power, Natural Gas, and Telecommunications Facilities

The project proposes undergrounding new electricity lines, which would require new underground joint trenching throughout the site and connection to a new utility box offsite at Spring Valley Way. The proposed project would include new underground connections to existing electric power, natural gas, telephone, and internet services, as described in Section 2.2.6. Existing electric power, natural gas, and telecommunications facilities would not need to be relocated or expanded to serve the project. This impact would be less than significant.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

Less Than Significant Impact. Sufficient water supply would be available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years. The water demand created by the project and reasonably foreseeable future development in the project area, and water supply and management in the project area are discussed below.

Water Demand

The proposed project would consume potable water for domestic uses, fire flow, and irrigation of landscaping. Cal Water has provided a will-serve letter for the project, indicating Cal Water's ability to provide water service to the project site (Cal Water 2021a).

The project vicinity is already heavily developed. Reasonably foreseeable future development is minimal in the vicinity and limited to redevelopment of sites that may already have an existing demand for water supply. Therefore, reasonably foreseeable development in the project vicinity is not expected to significantly increase the demand for water in the project vicinity.

Water Supply and Management

The 2020 Urban Water Master Plan demonstrates the MPD is expected to have adequate water supplies during years under normal conditions. However, significant water supply shortfalls are currently projected in future single and multiple dry years directly because of the implementation of the Bay-Delta Plan Amendment. Shortfalls of 20 percent and more are projected during single and multiple year droughts. Under such conditions, Cal Water will implement its Water Shortage Contingency Plan. Cal Water is also striving to increase the water supply portfolio for this District and for the other two peninsula districts (South San Francisco and Bear Gulch). These three Districts share Cal Water's SFPUC supply, and any supply added to one of these District will benefit the others.

The reduction in supply during dry years would need to be met through a combination of customer demand reductions from implementation of the Water Shortage Contingency Plan, increased water conservation, and the development of alternative water supplies. Cal Water implements a six-stage approach to drought response that corresponds to specific levels of water supply shortage. At each higher stage Cal Water requires more aggressive water use reductions from its customers. Stage 1 covers water shortages of up to 10 percent, Stage 2 covers up to 20 percent, Stage 3 covers up to 30 percent, Stage 4 covers up to 40 percent, Stage 5 covers up to 50 percent, and Stage 6 covers shortages in exceedance of 50 percent. In the earlier stages, conservation measures include requesting voluntary conservation, increasing educational programs regarding water supply, development of drought ordinances, and increased monitoring of water use. In the later or more aggressive stages, measures such as flow restrictors for high water users, mandatory conservation, restricting potable water use for landscape, and service shutoff for repeat offenders of these measures could be implemented.

Conclusion

While the 2020 UWMP indicated water supply deficiencies during single- and multiple dry years, the water conservation measures under the 2020 UWMP as described above, along with City of San Carlos measures related to water conservation, would ensure adequate supply of water to serve the project and reasonably foreseeable future development. For example, Section 18.18.080, Water Efficient Landscaping and Irrigation, of the San Carlos Municipal Code requires landscaping to be designed and plantings selected so that water use is minimized (City of San Carlos 2022a). In addition, the project and future development would be constructed using the most recent California Green Buildings Code (Part 11, Title 24, known as "CalGreen"), which among other things, requires construction to incorporate water efficiency and conservation measures, such as the installation of low flow toilets and faucets. This impact would be less than significant.

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Less Than Significant Impact. The City of San Carlos has confirmed the project site is within the City of San Carlos city limits and sewer service area. The City provided a will-serve letter indicating the City's ability to provide sanitary sewer service for the project site (City of San Carlos 2022b). The SVCW WWTP has a capacity to treat 29.5 mgd and currently receives approximately 20 mgd from residential and commercial customers in the SVCW service area. Accordingly, the SVCW WWTP has adequate capacity to serve the proposed project, which would generate wastewater at a rate comparable to nine single-family residences of similar size. This impact would be less than significant.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

e) Comply with Federal, State, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact. (Responses d and e). The proposed project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. The project would comply with all applicable Federal, State, and local management and reduction statutes and regulations related to solid waste. Potential impacts related to solid waste would be less than significant during project construction and operation, as discussed below.

Construction Waste

Solid waste generated by construction of the proposed project would largely consist of construction debris. In compliance with the California Green Building Standards Code (Part 11, Title 24, known as "CALGreen"), the project applicant would be required to have a waste management plan, for on-site sorting or construction debris, which is submitted to the City of San Carlos for approval. Also, the City Municipal Code includes construction waste diversion and recycling requirements through Municipal Code Chapter 8.05, Recycling and Diversion of Construction and Demolition Debris. The ordinance requires covered projects generating waste comprised of mixed debris, both structural debris (e.g., wood, metal, wallboard) and inert materials (dirt, asphalt, brick, and/or cinderblock) to divert at least 60 percent of all generated tonnage. However, at least 25 percent of diverted material shall come from generated tonnage that excludes dirt, concrete, asphalt, brick and/or cinderblock should equal at least 24 tons (25 percent) and the remainder, 35 five tons (35 percent) can be obtained through diversion of inert materials such as dirt, concrete, asphalt, brick, and/or cinderblock. Compliance with these regulations would prevent significant solid waste impacts during project construction.

Operational Waste

For the purposes of this analysis, using CalRecycle's most recent residential waste generation rate (12.23 pounds per household per day) (CalRecycle 2006), the proposed project is estimated to generate approximately 110.07 pounds of solid waste per day. Most of the solid waste generated in San Carlos is transported to the Ox Mountain Landfill near Half Moon Bay. The landfill, owned and operated by Allied Waste, is expected to reach capacity in 2034 (CalRecycle 2023). In 2019, the landfill received 608,086 tons of solid waste, of which 22,566 tons were from San Carlos (CalRecycle 2019a, 2019b). The proposed project would generate approximately 40,175.55 pounds per year (or 20.09 tons) per year, which is only a small percentage of the total solid waste received and is well within the capacity of the landfill.

The proposed residences would include areas for storage of solid waste and recyclable materials for pick up by Recology. Recology has provided a will serve letter indicating Recology will provide solid waste collection services for the new residences following construction (Recology 2022). The project would have less than significant solid waste impacts.

3.19.3 References

CalRecycle. 2006. Estimated Solid Waste Generation Rates. Residential Sector Generation Rates. Accessed February 10, 2023 at https://www2.calrecycle.ca.gov/wastecharacterization/general/rates.

_____. 2019a. Jurisdiction Disposal and Alternative Daily Cover (ADC) Tons by Facility. San Mateo County – San Carlos – 2019. Accessed February 10, 2023 at https://www2.calrecycle.ca.gov/LGCentral/DisposalReporting/Destination/DisposalByFacility.

_____. 2019b. Facility Summary of Waste Disposal by Jurisdiction of Origin. Accessed February 13, 2023 at https://www2.calrecycle.ca.gov/LGCentral/DisposalReporting/Origin/FacilitySummary.

_____. 2023. SWIS Facility/Site Activity Details. Corinda Los Trancos Landfill (Ox Mtn) (41-AA-0002). Accessed February 10, 2023 at https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1561?siteID=3223.

California Water Service Company (Cal Water). 2021a. Will Serve Letter APNs: 049-292-040/049-292-050/049-292-060, 308 Phelps Rd, San Carlos. March 3, 2021.

_____. 2021b. 2020 Urban Water Management Plan, Mid-Peninsula District. June 2021.

City of San Carlos. 2001. San Carlos Municipal Code Chapter 8.05: Recycling and Diversion of Construction and Demolition Debris.

_____. 2022a. San Carlos Municipal Code Chapter 18.18: Landscaping. Revised July 2022. https://www.codepublishing.com/CA/SanCarlos/html/SanCarlos18/SanCarlos1818.html#18.18.080.

_____. 2022b. Sanitary Sewer Will-Serve Letter for 308 Phelps Rd. April 4, 2022.

Recology. 2022. Email correspondence with Alexandra Rinear RE: 308 Phelps Rd, San Carlos: Will Serve for Trash Pickup. May 4, 2022.

3.20 WILDFIRE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Is the project located near state responsibility areas or lands classified as very high fire hazard severity zones?	☐ Yes		☒ No	
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐
c) Require the installation of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐

3.20.1 Environmental Setting

The project site is located within the City of San Carlos. According to California Department of Forestry and Fire Protection (CAL FIRE) Fire Hazard Severity Zone Viewer, the site is not in a Fire Hazard Severity Zone (i.e., a mapped area that designates zones – based on factors such as fuel, slope, and fire weather – with varying degrees of fire hazards) (CAL FIRE 2022). However, the site is located near a VHFHSZ, which is located approximately 2,000 feet to the west, and within the City's designated Wildland Urban Interface (WUI) Fire Area (City of San Carlos 2022). Per Section R337 of the 2019 California Residential Code (CRC), WUI is geographical area identified by the state as a "Fire Hazard Severity Zone" in accordance with the Public Resources Code Sections 4201 through 4204 and Government Code Sections 51175 through 51189, or other areas designated by the enforcing agency to be at a significant risk from wildfires.

3.20.2 Discussion

Would the project:

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

No Impact. The proposed project would develop a nine-lot residential subdivision in a fully developed residential area in San Carlos. The project proposes extending Spring Valley Way throughout the project site, and connecting the extension to Sheldon Avenue, an existing unimproved road west of the site that connects to Wellington Drive. The project would provide

for emergency access to and evacuation from Lots 1 through 7 via Spring Valley Way/Sheldon Avenue and Lots 8 and 9 via a new driveway off Phelps Road. The project would improve Sheldon Avenue as a fire access road by widening and paving the roadway to City standards for emergency access vehicles.

San Carlos does not have its own emergency response plan or emergency evacuation plan. San Carlos participates in the San Mateo County Multijurisdictional Local Hazard Mitigation Plan (SMC MLHMP). The SMC MLHMP defines measures to reduce risks from natural disasters in the County. The project would not impair implementation of the SMC MLHMP or any other such plan. The project would provide for emergency access to and evacuation from the site through the extension of Spring Valley Way throughout the project site and connection to Sheldon Avenue, the improvement of Sheldon Avenue as a fire access road, and the replacement of the existing, damaged driveway off Phelps Road with a new driveway. No impact would occur.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Less than Significant Impact. The proposed project would result in the construction of nine new residences in an urbanized setting on a site located in the vicinity of open space and a park, among other land uses. The project site contains steep average slopes (average cross slope of 34.7 percent). Existing vegetation on site includes native and ornamental vegetation, including several species of eucalyptus trees.

The project is anticipated to reduce, rather than exacerbate, wildfire risks onsite. Currently, emergency vehicle access to the site is impaired by the existing damaged driveway and lack of fire access roads to portions of the site. The project proposal includes the improvement of Sheldon Avenue for fire and emergency vehicle access and extension of Spring Valley Way throughout the site, which would improve fire vehicle access to the site. The project would remove all onsite eucalyptus trees, reducing wildfire hazards typically associated with eucalyptus trees. The proposed residences would be constructed according to the City's WUI building standards, which require roofs, vents, exterior coverings, exterior windows and doors, and decking to be designed to reduce fire risk, and each residence would contain a fire sprinkler system.

While the site's existing steep slopes, proximity to undeveloped open space areas, and proximity (within ½ mile) to CAL FIRE-designated VHFHSZs would theoretically exacerbate onsite wildfire risks, the project proposes to improve fire and emergency access to the site, remove all existing eucalyptus trees, which present a fire hazard, and construct the residences according to WUI building standards, which would lessen fire risk. Therefore, the project incorporates components that would reduce the potential to expose project applicants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire to a less than significant impact.

c) Require the installation of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Less than Significant Impact. The proposed project would result in the construction of nine new residences and associated infrastructure, including roads and utilities. The project proposes to extend Spring Valley Way through the project site and connect it to Sheldon Avenue. The project proposes to improve Sheldon Avenue from the proposed point of connection with Spring Valley Way to the terminus of the existing public portion of the roadway west of Arguello Park. The project proposal also includes the construction of a new driveway off Phelps Road to replace the existing driveway.

Construction and improvement of the project roadways would exacerbate fire risk if the construction equipment used to make the improvements are not equipped with spark arrester technology, leading to increased risk of sparks from construction equipment igniting onsite vegetation. However, all construction equipment must be equipped with spark arresters in accordance with California Vehicle Code (2010) requirements. Project compliance with this standard condition would ensure the project does not exacerbate fire risk from installation of new roadways. Further, the improvement of Sheldon Avenue as a fire access road and extension of Spring Valley Way would improve fire vehicle access to the project site, which would reduce the risk of spread of wildfire.

The project proposal includes installing new utility mains and connections, including electrical power lines. Aboveground power lines are associated with increased fire risk, as storm events and strong winds have the potential to topple power lines and poles and spark fire. Aboveground lines may also let off sparks due to old age, damage, or malfunction, increasing the risk of igniting nearby vegetation. The project proposes to replace existing aboveground power lines with underground lines, thereby reducing wildfire risk that would otherwise be heightened by the retention of existing aboveground lines and installation of new aboveground lines.

With compliance with the City's standards for construction equipment, the installation of project infrastructure, including roadways and utilities, would not exacerbate fire risk or result in temporary or ongoing impacts to the environment. This impact would be less than significant.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less than Significant Impact. As discussed above, the project would construct nine residences and associated infrastructure on a site that is largely undeveloped. The project site contains steep average slopes (average cross slope of 34.7 percent) and drains runoff as sheet flow south toward Phelps Road.

Development of the project would alter the site's existing drainage patters and direct runoff that current drains as sheet flow toward Phelps Road to stormwater runoff catch basins and bioretention treatment areas throughout the site and a bioretention treatment area with detention storage in the southwest corner of the site adjacent to Phelps Road. The project would also construct drainage swales throughout the sight to direct runoff toward new stormwater catch basins. All stormwater collected onsite would be directed to the City's storm drain system.

The project proposes to replant much of the project site with seeded native grasses and wildflowers, drought tolerant and low water-use plants, oak woodland understory plantings, and specimen oak trees. Therefore, while project grading activities may potentially destabilize slopes during construction be removing vegetation, the project would introduce new plantings to restabilize onsite slopes not occupied by structures or hardscape. The project proposal includes retaining walls on eight of the nine new lots, and a retaining wall onsite, but not located on one of the lots. The new retaining walls would also stabilize the slopes onsite.

While the project would change the drainage patterns of the site and introduce hardscape that may result in increased velocities of runoff onsite, the project incorporates in its design features intended to stabilize the site's slopes and capture onsite runoff for treatment and conveyance to City's storm drains to prevent runoff escape onto adjacent properties. As such, the project would not expose people or structures to significant risks including downslope or downstream flooding or landslides and a result of runoff, post-fire slope instability, or drainage changes. This impact would be less than significant.

3.20.3 References

California Department of Forestry and Fire Protection (CAL FIRE). 2022. Fire and Resource Assessment Program, California Fire Hazard Severity Zone Viewer. Accessed on April 13, 2022 at https://egis.fire.ca.gov/FHSZ/.

City of San Carlos. 2022. Adopted Codes. Accessed on February 21, 2023 at https://www.cityofsancarlos.org/government/departments/community-development/building/building-permits/adopted-codes.

3.21 MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Does the project have the potential to substantially 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?	☐	☐	☒	☐
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means the incremental effects of a project are considerable when viewed in connection with the efforts of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☒	☐
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☒	☐

3.21.1 Discussion

a) Does the project have the potential to substantially 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?

Less Than Significant. As described above, the project site is in an urbanized, developed area of San Carlos. While the site itself is largely undeveloped, the surroundings largely consist of single-family homes, school buildings, and associated hardscape. Because the project site is largely undeveloped and contains ample mature vegetation, including trees, project construction activities may potentially result in significant impacts to wildlife that may utilize or pass through the site, including special-status and common roosting bats, dusk-footed woodrats, nesting birds. Mitigation Measures BIO-1 – BIO-4 would reduce potential project-related impacts to these wildlife species to less than significant. There are no buildings currently listed or eligible for listing on the California Register of Historical Resources, no recorded archaeological sites, and no known paleontological resources located on the project site. However, the project may unintentionally uncover previously unknown archaeological resources and/or human remains during project construction. Implementation of Mitigation Measures CUL-1 and CUL-2 would reduce potentially significant impacts to buried archaeological resources and human remains to less than significant. Therefore, implementation of the proposed project would result in a less-than-significant impact to the environment.

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

Less Than Significant Impact. As described in the IS checklist, the impacts of the proposed project would be less than significant. Therefore, the proposed project would not be expected to contribute to significant cumulative impacts when considered along with other impacts or other reasonably foreseeable projects or when considered with the overall buildout under the City's General Plan.

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

Less Than Significant Impact. The project includes mitigation measures to reduce potential, short-term adverse health risks associated with $PM_{2.5}$ emissions, including emissions of DPM generated during project construction activities (AIR-1), protect paleontological resources (GEO-1), and reduce local traffic, bicycle, and pedestrian impacts during construction through the implementation of a Construction Management Plan (TRAFF-1). Implementation of these mitigation measures would reduce the proposed project's potential effects on human beings would be less than significant.

Chapter 4. List of Preparers

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308 and 310 Phelps Road
Residential Subdivision Project

Initial Study / Mitigated Negative Declaration

Appendices

City of San Carlos

600 Elm Street, San Carlos, CA 94070

April 2023

Appendix A

Air Quality and Greenhouse Gases Calculations

308 Phelps Road Subdivision (San Carlos) - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

308 Phelps Road Subdivision (San Carlos)

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	27.11	1000sqft	0.62	27,112.00	0
Other Non-Asphalt Surfaces	26.47	1000sqft	0.61	26,469.00	0
Single Family Housing	9.00	Dwelling Unit	2.58	34,833.00	26

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2025
Utility Company	Peninsula Clean Energy				
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - MIG Modeler: Phil Gleason

Land Use - Lot acreage for SFH updated to reflect building footprint and amount of open space, so that landscaping emissions are also accurately captured.

Construction Phase - Schedule updated based on information provided by Applicant. Demo - mass grading anticipated to last 8 months; units pad construction / vertical construction anticipated to last 14 months. Individual phase durations extended to match this schedule.

Off-road Equipment - Building Construction - Equipment list updated based on information provided by Applicant.

Off-road Equipment - Demolition - Equipment updated based on list provided by Applicant.

Off-road Equipment - Grading - Equipment list updated based on information provided by Applicant.

Off-road Equipment - Paving - Equipment list updated based on information provided by Applicant.

Off-road Equipment - Site Prep: Equipment list updated based on information provided by Applicant.

Trips and VMT - Construction Trips and VMT - Applicant indicated there would be 45 vendor trips during construction activities. Additional trips added for water (water truck) and concrete deliveries.

308 Phelps Road Subdivision (San Carlos) - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition - Added off-haul of 500 tons of debris to account for trees and other on-site materials that may need to be hauled off-site (removes 146 trees).

Grading - Off-haul of 10,740 CY of soil.

Vehicle Trips - Default trip gen consistent with Hexagon traffic report; no credit taken for existing land uses that used to be at the site.

Woodstoves - Wood stoves and fireplaces prohibited in new Bay Area development per BAAQMD Reg 6, Rule 3, Section 306.

Energy Use - New SFHs would be all electric.

Sequestration -

Construction Off-road Equipment Mitigation - Watering 2x per day per BAAQMD Fugitive Dust BMPs

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	5.00	63.00
tblConstructionPhase	NumDays	8.00	89.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	18.00	44.00
tblEnergyUse	NT24E	6,155.97	6,156.74
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24E	45.71	56.25
tblEnergyUse	T24NG	35,976.14	0.00
tblFireplaces	NumberGas	2.25	0.00
tblFireplaces	NumberNoFireplace	0.72	0.00
tblFireplaces	NumberWood	3.87	0.00
tblGrading	MaterialExported	0.00	10,740.00
tblLandUse	LandUseSquareFeet	27,110.00	27,112.00
tblLandUse	LandUseSquareFeet	26,470.00	26,469.00
tblLandUse	LandUseSquareFeet	16,200.00	34,833.00
tblLandUse	LotAcreage	2.92	2.58
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	50.00
tblTripsAndVMT	HaulingTripLength	20.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	10.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblWoodstoves	NumberCatalytic	0.36	0.00
tblWoodstoves	NumberNoncatalytic	0.36	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	0.2421	2.5562	2.2152	5.5400e-003	0.5996	0.1018	0.7014	0.2762	0.0952	0.3714	0.0000	504.4900	504.4900	0.1103	0.0197	513.1294
2024	0.3942	1.1755	1.6416	2.9100e-003	0.0244	0.0515	0.0759	6.5200e-003	0.0498	0.0563	0.0000	251.3048	251.3048	0.0365	1.0100e-003	252.5191
Maximum	**0.3942**	**2.5562**	**2.2152**	**5.5400e-003**	**0.5996**	**0.1018**	**0.7014**	**0.2762**	**0.0952**	**0.3714**	**0.0000**	**504.4900**	**504.4900**	**0.1103**	**0.0197**	**513.1294**

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					
2023	0.2421	2.5562	2.2152	5.5400e-003	0.3003	0.1018	0.4021	0.1325	0.0952	0.2278	0.0000	504.4896	504.4896	0.1103	0.0197	513.1289
2024	0.3942	1.1755	1.6416	2.9100e-003	0.0244	0.0515	0.0759	6.5200e-003	0.0498	0.0563	0.0000	251.3045	251.3045	0.0365	1.0100e-003	252.5188
Maximum	**0.3942**	**2.5562**	**2.2152**	**5.5400e-003**	**0.3003**	**0.1018**	**0.4021**	**0.1325**	**0.0952**	**0.2278**	**0.0000**	**504.4896**	**504.4896**	**0.1103**	**0.0197**	**513.1289**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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**	**47.97**	**0.01**	**38.51**	**50.81**	**0.00**	**33.58**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2023**	**3-31-2023**	0.7358	0.7358
2	**4-1-2023**	**6-30-2023**	0.8666	0.8666
3	**7-1-2023**	**9-30-2023**	0.7615	0.7615
4	**10-1-2023**	**12-31-2023**	0.4257	0.4257
5	**1-1-2024**	**3-31-2024**	0.3972	0.3972
6	**4-1-2024**	**6-30-2024**	0.3967	0.3967
7	**7-1-2024**	**9-30-2024**	0.3832	0.3832
		Highest	0.8666	0.8666

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1672	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0313	0.0287	0.2998	6.2000e-004	0.0711	4.1000e-004	0.0715	0.0190	3.8000e-004	0.0194	0.0000	57.4178	57.4178	3.9000e-003	2.5400e-003	58.2716
Waste						0.0000	0.0000		0.0000	0.0000	2.2167	0.0000	2.2167	0.1310	0.0000	5.4917
Water						0.0000	0.0000		0.0000	0.0000	0.1860	0.0000	0.1860	0.0191	4.5000e-004	0.7982
Total	**0.1984**	**0.0294**	**0.3671**	**6.2000e-004**	**0.0711**	**7.8000e-004**	**0.0719**	**0.0190**	**7.5000e-004**	**0.0197**	**2.4027**	**57.5280**	**59.9307**	**0.1541**	**2.9900e-003**	**64.6742**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1672	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0313	0.0287	0.2998	6.2000e-004	0.0711	4.1000e-004	0.0715	0.0190	3.8000e-004	0.0194	0.0000	57.4178	57.4178	3.9000e-003	2.5400e-003	58.2716
Waste						0.0000	0.0000		0.0000	0.0000	2.2167	0.0000	2.2167	0.1310	0.0000	5.4917
Water						0.0000	0.0000		0.0000	0.0000	0.1860	0.0000	0.1860	0.0191	4.5000e-004	0.7982
Total	**0.1984**	**0.0294**	**0.3671**	**6.2000e-004**	**0.0711**	**7.8000e-004**	**0.0719**	**0.0190**	**7.5000e-004**	**0.0197**	**2.4027**	**57.5280**	**59.9307**	**0.1541**	**2.9900e-003**	**64.6742**

	ROG	NOx	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**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/31/2023	5	22	
2	Site Preparation	Site Preparation	2/1/2023	4/30/2023	5	63	
3	Grading	Grading	5/1/2023	8/31/2023	5	89	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	9/1/2023	8/31/2024	5	261	
5	Paving	Paving	9/1/2024	10/31/2024	5	44	
6	Architectural Coating	Architectural Coating	10/8/2024	10/31/2024	5	18	

Acres of Grading (Site Preparation Phase): 63

Acres of Grading (Grading Phase): 89

Acres of Paving: 1.23

Residential Indoor: 70,537; Residential Outdoor: 23,512; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,215 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Excavators	1	6.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Sweepers/Scrubbers	1	6.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation	Excavators	1	6.00	158	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Plate Compactors	1	6.00	8	0.43
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	6.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	1	6.00	8	0.43
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Sweepers/Scrubbers	1	6.00	64	0.46
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Air Compressors	1	4.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	2.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	2.00	81	0.73
Building Construction	Dumpers/Tenders	1	4.00	16	0.38
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	2	4.00	84	0.74
Building Construction	Plate Compactors	1	2.00	8	0.43
Building Construction	Pressure Washers	1	2.00	13	0.30
Building Construction	Pumps	2	4.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Skid Steer Loaders	1	4.00	65	0.37
Building Construction	Sweepers/Scrubbers	1	4.00	64	0.46
Building Construction	Welders	1	2.00	46	0.45
Paving	Concrete/Industrial Saws	1	2.00	81	0.73
Paving	Graders	1	4.00	187	0.41
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Plate Compactors	1	2.00	8	0.43
Paving	Rollers	1	6.00	80	0.38
Paving	Rubber Tired Loaders	1	4.00	203	0.36
Paving	Signal Boards	1	8.00	6	0.82
Paving	Skid Steer Loaders	1	6.00	65	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Sweepers/Scrubbers	1	4.00	64	0.46
Paving	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	9	23.00	1.00	49.00	10.80	7.30	50.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	10	25.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	1.00	1,343.00	10.80	7.30	50.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	26.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	28.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					5.3500e-003	0.0000	5.3500e-003	8.1000e-004	0.0000	8.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2028	0.1885	3.8000e-004		9.2100e-003	9.2100e-003		8.6000e-003	8.6000e-003	0.0000	32.9181	32.9181	8.8900e-003	0.0000	33.1405
Total	**0.0213**	**0.2028**	**0.1885**	**3.8000e-004**	**5.3500e-003**	**9.2100e-003**	**0.0146**	**8.1000e-004**	**8.6000e-003**	**9.4100e-003**	**0.0000**	**32.9181**	**32.9181**	**8.8900e-003**	**0.0000**	**33.1405**

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	1.1000e-004	8.9700e-003	2.7200e-003	4.0000e-005	1.0300e-003	6.0000e-005	1.0900e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	4.0906	4.0906	4.1000e-004	6.6000e-004	4.2974
Vendor	1.0000e-005	5.2000e-004	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2337	0.2337	1.0000e-005	3.0000e-005	0.2443
Worker	5.5000e-004	3.6000e-004	4.9100e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4803	1.4803	4.0000e-005	4.0000e-005	1.4923
Total	**6.7000e-004**	**9.8500e-003**	**7.8200e-003**	**6.0000e-005**	**3.0900e-003**	**7.0000e-005**	**3.1600e-003**	**8.3000e-004**	**7.0000e-005**	**9.0000e-004**	**0.0000**	**5.8046**	**5.8046**	**4.6000e-004**	**7.3000e-004**	**6.0340**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					2.4100e-003	0.0000	2.4100e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2028	0.1885	3.8000e-004		9.2100e-003	9.2100e-003		8.6000e-003	8.6000e-003	0.0000	32.9181	32.9181	8.8900e-003	0.0000	33.1404
Total	**0.0213**	**0.2028**	**0.1885**	**3.8000e-004**	**2.4100e-003**	**9.2100e-003**	**0.0116**	**3.6000e-004**	**8.6000e-003**	**8.9600e-003**	**0.0000**	**32.9181**	**32.9181**	**8.8900e-003**	**0.0000**	**33.1404**

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	1.1000e-004	8.9700e-003	2.7200e-003	4.0000e-005	1.0300e-003	6.0000e-005	1.0900e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	4.0906	4.0906	4.1000e-004	6.6000e-004	4.2974
Vendor	1.0000e-005	5.2000e-004	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2337	0.2337	1.0000e-005	3.0000e-005	0.2443
Worker	5.5000e-004	3.6000e-004	4.9100e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4803	1.4803	4.0000e-005	4.0000e-005	1.4923
Total	**6.7000e-004**	**9.8500e-003**	**7.8200e-003**	**6.0000e-005**	**3.0900e-003**	**7.0000e-005**	**3.1600e-003**	**8.3000e-004**	**7.0000e-005**	**9.0000e-004**	**0.0000**	**5.8046**	**5.8046**	**4.6000e-004**	**7.3000e-004**	**6.0340**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					0.2231	0.0000	0.2231	0.1079	0.0000	0.1079	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0658	0.6761	0.5181	1.1500e-003		0.0285	0.0285		0.0263	0.0263	0.0000	100.6906	100.6906	0.0320	0.0000	101.4913
Total	**0.0658**	**0.6761**	**0.5181**	**1.1500e-003**	**0.2231**	**0.0285**	**0.2516**	**0.1079**	**0.0263**	**0.1342**	**0.0000**	**100.6906**	**100.6906**	**0.0320**	**0.0000**	**101.4913**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.4800e-003	5.3000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6692	0.6692	4.0000e-005	1.0000e-004	0.6997
Worker	1.7000e-003	1.1100e-003	0.0153	5.0000e-005	6.2000e-003	3.0000e-005	6.2300e-003	1.6500e-003	3.0000e-005	1.6800e-003	0.0000	4.6077	4.6077	1.2000e-004	1.2000e-004	4.6451
Total	**1.7300e-003**	**2.5900e-003**	**0.0158**	**6.0000e-005**	**6.4100e-003**	**4.0000e-005**	**6.4400e-003**	**1.7100e-003**	**4.0000e-005**	**1.7500e-003**	**0.0000**	**5.2769**	**5.2769**	**1.6000e-004**	**2.2000e-004**	**5.3448**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					0.1004	0.0000	0.1004	0.0486	0.0000	0.0486	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0658	0.6761	0.5181	1.1500e-003		0.0285	0.0285		0.0263	0.0263	0.0000	100.6905	100.6905	0.0320	0.0000	101.4911
Total	**0.0658**	**0.6761**	**0.5181**	**1.1500e-003**	**0.1004**	**0.0285**	**0.1289**	**0.0486**	**0.0263**	**0.0748**	**0.0000**	**100.6905**	**100.6905**	**0.0320**	**0.0000**	**101.4911**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.4800e-003	5.3000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6692	0.6692	4.0000e-005	1.0000e-004	0.6997
Worker	1.7000e-003	1.1100e-003	0.0153	5.0000e-005	6.2000e-003	3.0000e-005	6.2300e-003	1.6500e-003	3.0000e-005	1.6800e-003	0.0000	4.6077	4.6077	1.2000e-004	1.2000e-004	4.6451
Total	**1.7300e-003**	**2.5900e-003**	**0.0158**	**6.0000e-005**	**6.4100e-003**	**4.0000e-005**	**6.4400e-003**	**1.7100e-003**	**4.0000e-005**	**1.7500e-003**	**0.0000**	**5.2769**	**5.2769**	**1.6000e-004**	**2.2000e-004**	**5.3448**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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					0.3158	0.0000	0.3158	0.1525	0.0000	0.1525	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0884	0.9176	0.7074	1.5800e-003		0.0386	0.0386		0.0356	0.0356	0.0000	138.7453	138.7453	0.0446	0.0000	139.8614
Total	**0.0884**	**0.9176**	**0.7074**	**1.5800e-003**	**0.3158**	**0.0386**	**0.3544**	**0.1525**	**0.0356**	**0.1881**	**0.0000**	**138.7453**	**138.7453**	**0.0446**	**0.0000**	**139.8614**

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	3.1100e-003	0.2460	0.0744	1.0600e-003	0.0282	1.7100e-003	0.0299	7.7300e-003	1.6400e-003	9.3700e-003	0.0000	112.1150	112.1150	0.0114	0.0181	117.7834
Vendor	5.0000e-005	2.1000e-003	7.5000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.9454	0.9454	6.0000e-005	1.4000e-004	0.9884
Worker	2.2100e-003	1.4400e-003	0.0198	7.0000e-005	8.0600e-003	4.0000e-005	8.1000e-003	2.1400e-003	4.0000e-005	2.1800e-003	0.0000	5.9886	5.9886	1.5000e-004	1.5000e-004	6.0372
Total	**5.3700e-003**	**0.2495**	**0.0950**	**1.1400e-003**	**0.0365**	**1.7600e-003**	**0.0383**	**9.9500e-003**	**1.6900e-003**	**0.0116**	**0.0000**	**119.0490**	**119.0490**	**0.0116**	**0.0184**	**124.8090**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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					0.1421	0.0000	0.1421	0.0686	0.0000	0.0686	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0884	0.9176	0.7074	1.5800e-003		0.0386	0.0386		0.0356	0.0356	0.0000	138.7451	138.7451	0.0446	0.0000	139.8612
Total	**0.0884**	**0.9176**	**0.7074**	**1.5800e-003**	**0.1421**	**0.0386**	**0.1807**	**0.0686**	**0.0356**	**0.1042**	**0.0000**	**138.7451**	**138.7451**	**0.0446**	**0.0000**	**139.8612**

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	3.1100e-003	0.2460	0.0744	1.0600e-003	0.0282	1.7100e-003	0.0299	7.7300e-003	1.6400e-003	9.3700e-003	0.0000	112.1150	112.1150	0.0114	0.0181	117.7834
Vendor	5.0000e-005	2.1000e-003	7.5000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.9454	0.9454	6.0000e-005	1.4000e-004	0.9884
Worker	2.2100e-003	1.4400e-003	0.0198	7.0000e-005	8.0600e-003	4.0000e-005	8.1000e-003	2.1400e-003	4.0000e-005	2.1800e-003	0.0000	5.9886	5.9886	1.5000e-004	1.5000e-004	6.0372
Total	**5.3700e-003**	**0.2495**	**0.0950**	**1.1400e-003**	**0.0365**	**1.7600e-003**	**0.0383**	**9.9500e-003**	**1.6900e-003**	**0.0116**	**0.0000**	**119.0490**	**119.0490**	**0.0116**	**0.0184**	**124.8090**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0564	0.4921	0.6594	1.0900e-003		0.0235	0.0235		0.0229	0.0229	0.0000	93.6368	93.6368	0.0123	0.0000	93.9436
Total	**0.0564**	**0.4921**	**0.6594**	**1.0900e-003**		**0.0235**	**0.0235**		**0.0229**	**0.0229**	**0.0000**	**93.6368**	**93.6368**	**0.0123**	**0.0000**	**93.9436**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	4.0500e-003	1.4500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	1.8271	1.8271	1.1000e-004	2.7000e-004	1.9102
Worker	2.4100e-003	1.5700e-003	0.0217	7.0000e-005	8.8000e-003	4.0000e-005	8.8400e-003	2.3400e-003	4.0000e-005	2.3800e-003	0.0000	6.5415	6.5415	1.7000e-004	1.6000e-004	6.5946
Total	**2.5000e-003**	**5.6200e-003**	**0.0231**	**9.0000e-005**	**9.3600e-003**	**6.0000e-005**	**9.4200e-003**	**2.5000e-003**	**6.0000e-005**	**2.5600e-003**	**0.0000**	**8.3686**	**8.3686**	**2.8000e-004**	**4.3000e-004**	**8.5048**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0564	0.4921	0.6594	1.0900e-003		0.0235	0.0235		0.0229	0.0229	0.0000	93.6367	93.6367	0.0123	0.0000	93.9435
Total	**0.0564**	**0.4921**	**0.6594**	**1.0900e-003**		**0.0235**	**0.0235**		**0.0229**	**0.0229**	**0.0000**	**93.6367**	**93.6367**	**0.0123**	**0.0000**	**93.9435**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	4.0500e-003	1.4500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	1.8271	1.8271	1.1000e-004	2.7000e-004	1.9102
Worker	2.4100e-003	1.5700e-003	0.0217	7.0000e-005	8.8000e-003	4.0000e-005	8.8400e-003	2.3400e-003	4.0000e-005	2.3800e-003	0.0000	6.5415	6.5415	1.7000e-004	1.6000e-004	6.5946
Total	**2.5000e-003**	**5.6200e-003**	**0.0231**	**9.0000e-005**	**9.3600e-003**	**6.0000e-005**	**9.4200e-003**	**2.5000e-003**	**6.0000e-005**	**2.5600e-003**	**0.0000**	**8.3686**	**8.3686**	**2.8000e-004**	**4.3000e-004**	**8.5048**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.1080	0.9447	1.3399	2.2300e-003		0.0420	0.0420		0.0409	0.0409	0.0000	190.5379	190.5379	0.0246	0.0000	191.1531
Total	**0.1080**	**0.9447**	**1.3399**	**2.2300e-003**		**0.0420**	**0.0420**		**0.0409**	**0.0409**	**0.0000**	**190.5379**	**190.5379**	**0.0246**	**0.0000**	**191.1531**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	8.1600e-003	2.9400e-003	4.0000e-005	1.1400e-003	4.0000e-005	1.1900e-003	3.3000e-004	4.0000e-005	3.7000e-004	0.0000	3.6520	3.6520	2.3000e-004	5.4000e-004	3.8185
Worker	4.6500e-003	2.8700e-003	0.0415	1.4000e-004	0.0179	8.0000e-005	0.0180	4.7700e-003	8.0000e-005	4.8400e-003	0.0000	12.8783	12.8783	3.1000e-004	3.1000e-004	12.9791
Total	**4.8300e-003**	**0.0110**	**0.0444**	**1.8000e-004**	**0.0191**	**1.2000e-004**	**0.0192**	**5.1000e-003**	**1.2000e-004**	**5.2100e-003**	**0.0000**	**16.5303**	**16.5303**	**5.4000e-004**	**8.5000e-004**	**16.7976**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.1080	0.9447	1.3399	2.2300e-003		0.0420	0.0420		0.0409	0.0409	0.0000	190.5377	190.5377	0.0246	0.0000	191.1529
Total	**0.1080**	**0.9447**	**1.3399**	**2.2300e-003**		**0.0420**	**0.0420**		**0.0409**	**0.0409**	**0.0000**	**190.5377**	**190.5377**	**0.0246**	**0.0000**	**191.1529**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	8.1600e-003	2.9400e-003	4.0000e-005	1.1400e-003	4.0000e-005	1.1900e-003	3.3000e-004	4.0000e-005	3.7000e-004	0.0000	3.6520	3.6520	2.3000e-004	5.4000e-004	3.8185
Worker	4.6500e-003	2.8700e-003	0.0415	1.4000e-004	0.0179	8.0000e-005	0.0180	4.7700e-003	8.0000e-005	4.8400e-003	0.0000	12.8783	12.8783	3.1000e-004	3.1000e-004	12.9791
Total	**4.8300e-003**	**0.0110**	**0.0444**	**1.8000e-004**	**0.0191**	**1.2000e-004**	**0.0192**	**5.1000e-003**	**1.2000e-004**	**5.2100e-003**	**0.0000**	**16.5303**	**16.5303**	**5.4000e-004**	**8.5000e-004**	**16.7976**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0211	0.2069	0.2286	4.4000e-004		8.8100e-003	8.8100e-003		8.1800e-003	8.1800e-003	0.0000	37.7377	37.7377	0.0111	0.0000	38.0161
Paving	8.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0219**	**0.2069**	**0.2286**	**4.4000e-004**		**8.8100e-003**	**8.8100e-003**		**8.1800e-003**	**8.1800e-003**	**0.0000**	**37.7377**	**37.7377**	**0.0111**	**0.0000**	**38.0161**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	1.0300e-003	3.7000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4591	0.4591	3.0000e-005	7.0000e-005	0.4800
Worker	1.2600e-003	7.8000e-004	0.0112	4.0000e-005	4.8500e-003	2.0000e-005	4.8700e-003	1.2900e-003	2.0000e-005	1.3100e-003	0.0000	3.4871	3.4871	8.0000e-005	8.0000e-005	3.5143
Total	**1.2800e-003**	**1.8100e-003**	**0.0116**	**4.0000e-005**	**4.9900e-003**	**3.0000e-005**	**5.0200e-003**	**1.3300e-003**	**3.0000e-005**	**1.3600e-003**	**0.0000**	**3.9462**	**3.9462**	**1.1000e-004**	**1.5000e-004**	**3.9944**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0211	0.2069	0.2286	4.4000e-004		8.8100e-003	8.8100e-003		8.1800e-003	8.1800e-003	0.0000	37.7377	37.7377	0.0111	0.0000	38.0160
Paving	8.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0219**	**0.2069**	**0.2286**	**4.4000e-004**		**8.8100e-003**	**8.8100e-003**		**8.1800e-003**	**8.1800e-003**	**0.0000**	**37.7377**	**37.7377**	**0.0111**	**0.0000**	**38.0160**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	1.0300e-003	3.7000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4591	0.4591	3.0000e-005	7.0000e-005	0.4800
Worker	1.2600e-003	7.8000e-004	0.0112	4.0000e-005	4.8500e-003	2.0000e-005	4.8700e-003	1.2900e-003	2.0000e-005	1.3100e-003	0.0000	3.4871	3.4871	8.0000e-005	8.0000e-005	3.5143
Total	**1.2800e-003**	**1.8100e-003**	**0.0116**	**4.0000e-005**	**4.9900e-003**	**3.0000e-005**	**5.0200e-003**	**1.3300e-003**	**3.0000e-005**	**1.3600e-003**	**0.0000**	**3.9462**	**3.9462**	**1.1000e-004**	**1.5000e-004**	**3.9944**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.2564					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.2580**	**0.0110**	**0.0163**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

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	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	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.2000e-004	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2547	0.2547	1.0000e-005	1.0000e-005	0.2567
Total	**9.0000e-005**	**6.0000e-005**	**8.2000e-004**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2547**	**0.2547**	**1.0000e-005**	**1.0000e-005**	**0.2567**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.2564					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.2580**	**0.0110**	**0.0163**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

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	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	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.2000e-004	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2547	0.2547	1.0000e-005	1.0000e-005	0.2567
Total	**9.0000e-005**	**6.0000e-005**	**8.2000e-004**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2547**	**0.2547**	**1.0000e-005**	**1.0000e-005**	**0.2567**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0313	0.0287	0.2998	6.2000e-004	0.0711	4.1000e-004	0.0715	0.0190	3.8000e-004	0.0194	0.0000	57.4178	57.4178	3.9000e-003	2.5400e-003	58.2716
Unmitigated	0.0313	0.0287	0.2998	6.2000e-004	0.0711	4.1000e-004	0.0715	0.0190	3.8000e-004	0.0194	0.0000	57.4178	57.4178	3.9000e-003	2.5400e-003	58.2716

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	84.96	85.86	76.95	193,878	193,878
Total	84.96	85.86	76.95	193,878	193,878

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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.465403	0.073585	0.235906	0.146720	0.025583	0.006412	0.010355	0.002060	0.001446	0.000572	0.028871	0.000432	0.002657
Other Non-Asphalt Surfaces	0.465403	0.073585	0.235906	0.146720	0.025583	0.006412	0.010355	0.002060	0.001446	0.000572	0.028871	0.000432	0.002657
Single Family Housing	0.465403	0.073585	0.235906	0.146720	0.025583	0.006412	0.010355	0.002060	0.001446	0.000572	0.028871	0.000432	0.002657

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	70396.5	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	70396.5	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive 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	0.1672	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Unmitigated	0.1672	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128

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	0.0256					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1395					0.0000	0.0000		0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0500e-003	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Total	**0.1672**	**7.7000e-004**	**0.0673**	**0.0000**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**0.1101**	**0.1101**	**1.1000e-004**	**0.0000**	**0.1128**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0256					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1395					0.0000	0.0000		0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0500e-003	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Total	**0.1672**	**7.7000e-004**	**0.0673**	**0.0000**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**0.1101**	**0.1101**	**1.1000e-004**	**0.0000**	**0.1128**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1860	0.0191	4.5000e-004	0.7982
Unmitigated	0.1860	0.0191	4.5000e-004	0.7982

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.586386 / 0.369678	0.1860	0.0191	4.5000e-004	0.7982
Total		**0.1860**	**0.0191**	**4.5000e-004**	**0.7982**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.586386 / 0.369678	0.1860	0.0191	4.5000e-004	0.7982
Total		**0.1860**	**0.0191**	**4.5000e-004**	**0.7982**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.2167	0.1310	0.0000	5.4917
Unmitigated	2.2167	0.1310	0.0000	5.4917

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.92	2.2167	0.1310	0.0000	5.4917
Total		**2.2167**	**0.1310**	**0.0000**	**5.4917**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.92	2.2167	0.1310	0.0000	5.4917
Total		**2.2167**	**0.1310**	**0.0000**	**5.4917**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	27.11	1000sqft	0.62	27,112.00	0
Other Non-Asphalt Surfaces	26.47	1000sqft	0.61	26,469.00	0
Single Family Housing	9.00	Dwelling Unit	2.58	34,833.00	26

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2025
Utility Company	Peninsula Clean Energy				
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - MIG Modeler: Phil Gleason

Land Use - Lot acreage for SFH updated to reflect building footprint and amount of open space, so that landscaping emissions are also accurately captured.

Construction Phase - Schedule updated based on information provided by Applicant. Demo - mass grading anticipated to last 8 months; units pad construction / vertical construction anticipated to last 14 months. Individual phase durations extended to match this schedule.

Off-road Equipment - Building Construction - Equipment list updated based on information provided by Applicant.

Off-road Equipment - Demolition - Equipment updated based on list provided by Applicant.

Off-road Equipment - Grading - Equipment list updated based on information provided by Applicant.

Off-road Equipment - Paving - Equipment list updated based on information provided by Applicant.

Off-road Equipment - Site Prep: Equipment list updated based on information provided by Applicant.

Trips and VMT - Construction Trips and VMT - Applicant indicated there would be 45 vendor trips during construction activities. Additional trips added for water (water truck) and concrete deliveries.

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Demolition - Added off-haul of 500 tons of debris to account for trees and other on-site materials that may need to be hauled off-site (removes 146 trees).

Grading - Off-haul of 10,740 CY of soil.

Vehicle Trips - Default trip gen consistent with Hexagon traffic report; no credit taken for existing land uses that used to be at the site.

Woodstoves - Wood stoves and fireplaces prohibited in new Bay Area development per BAAQMD Reg 6, Rule 3, Section 306.

Energy Use - New SFHs would be all electric.

Sequestration -

Construction Off-road Equipment Mitigation - Watering 2x per day per BAAQMD Fugitive Dust BMPs. All off-road equipment 50 hp < required to be Tier IV to mitigate DPM emissions.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	5.00	63.00
tblConstructionPhase	NumDays	8.00	89.00
tblConstructionPhase	NumDays	230.00	261.00
tblConstructionPhase	NumDays	18.00	44.00
tblEnergyUse	NT24E	6,155.97	6,156.74
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24E	45.71	56.25
tblEnergyUse	T24NG	35,976.14	0.00
tblFireplaces	NumberGas	2.25	0.00
tblFireplaces	NumberNoFireplace	0.72	0.00
tblFireplaces	NumberWood	3.87	0.00
tblGrading	MaterialExported	0.00	10,740.00
tblLandUse	LandUseSquareFeet	27,110.00	27,112.00
tblLandUse	LandUseSquareFeet	26,470.00	26,469.00
tblLandUse	LandUseSquareFeet	16,200.00	34,833.00
tblLandUse	LotAcreage	2.92	2.58
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	50.00
tblTripsAndVMT	HaulingTripLength	20.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	10.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblWoodstoves	NumberCatalytic	0.36	0.00
tblWoodstoves	NumberNoncatalytic	0.36	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
2023	0.2421	2.5562	2.2152	5.5400e-003	0.5996	0.1018	0.7014	0.2762	0.0952	0.3714	0.0000	504.4900	504.4900	0.1103	0.0197	513.1294
2024	0.3942	1.1755	1.6416	2.9100e-003	0.0244	0.0515	0.0759	6.5200e-003	0.0498	0.0563	0.0000	251.3048	251.3048	0.0365	1.0100e-003	252.5191
Maximum	**0.3942**	**2.5562**	**2.2152**	**5.5400e-003**	**0.5996**	**0.1018**	**0.7014**	**0.2762**	**0.0952**	**0.3714**	**0.0000**	**504.4900**	**504.4900**	**0.1103**	**0.0197**	**513.1294**

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					
2023	0.0753	0.7722	2.6285	5.5400e-003	0.3003	0.0110	0.3113	0.1325	0.0110	0.1435	0.0000	504.4896	504.4896	0.1103	0.0197	513.1289
2024	0.3073	0.3469	1.7966	2.9100e-003	0.0244	6.8100e-003	0.0312	6.5200e-003	6.8000e-003	0.0133	0.0000	251.3045	251.3045	0.0365	1.0100e-003	252.5188
Maximum	**0.3073**	**0.7722**	**2.6285**	**5.5400e-003**	**0.3003**	**0.0110**	**0.3113**	**0.1325**	**0.0110**	**0.1435**	**0.0000**	**504.4896**	**504.4896**	**0.1103**	**0.0197**	**513.1289**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	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	**39.86**	**70.01**	**-14.74**	**0.00**	**47.97**	**88.36**	**55.94**	**50.81**	**87.76**	**63.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2023**	**3-31-2023**	0.7358	0.1747
2	**4-1-2023**	**6-30-2023**	0.8666	0.2769
3	**7-1-2023**	**9-30-2023**	0.7615	0.2636
4	**10-1-2023**	**12-31-2023**	0.4257	0.1222
5	**1-1-2024**	**3-31-2024**	0.3972	0.1201
6	**4-1-2024**	**6-30-2024**	0.3967	0.1195
7	**7-1-2024**	**9-30-2024**	0.3832	0.1174
		Highest	0.8666	0.2769

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1672	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0313	0.0287	0.2998	6.2000e-004	0.0711	4.1000e-004	0.0715	0.0190	3.8000e-004	0.0194	0.0000	57.4178	57.4178	3.9000e-003	2.5400e-003	58.2716
Waste						0.0000	0.0000		0.0000	0.0000	2.2167	0.0000	2.2167	0.1310	0.0000	5.4917
Water						0.0000	0.0000		0.0000	0.0000	0.1860	0.0000	0.1860	0.0191	4.5000e-004	0.7982
Total	**0.1984**	**0.0294**	**0.3671**	**6.2000e-004**	**0.0711**	**7.8000e-004**	**0.0719**	**0.0190**	**7.5000e-004**	**0.0197**	**2.4027**	**57.5280**	**59.9307**	**0.1541**	**2.9900e-003**	**64.6742**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.1672	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0313	0.0287	0.2998	6.2000e-004	0.0711	4.1000e-004	0.0715	0.0190	3.8000e-004	0.0194	0.0000	57.4178	57.4178	3.9000e-003	2.5400e-003	58.2716
Waste						0.0000	0.0000		0.0000	0.0000	2.2167	0.0000	2.2167	0.1310	0.0000	5.4917
Water						0.0000	0.0000		0.0000	0.0000	0.1860	0.0000	0.1860	0.0191	4.5000e-004	0.7982
Total	**0.1984**	**0.0294**	**0.3671**	**6.2000e-004**	**0.0711**	**7.8000e-004**	**0.0719**	**0.0190**	**7.5000e-004**	**0.0197**	**2.4027**	**57.5280**	**59.9307**	**0.1541**	**2.9900e-003**	**64.6742**

	ROG	NOx	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**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/31/2023	5	22	
2	Site Preparation	Site Preparation	2/1/2023	4/30/2023	5	63	
3	Grading	Grading	5/1/2023	8/31/2023	5	89	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	9/1/2023	8/31/2024	5	261	
5	Paving	Paving	9/1/2024	10/31/2024	5	44	
6	Architectural Coating	Architectural Coating	10/8/2024	10/31/2024	5	18	

Acres of Grading (Site Preparation Phase): 63

Acres of Grading (Grading Phase): 89

Acres of Paving: 1.23

Residential Indoor: 70,537; Residential Outdoor: 23,512; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,215 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Dumpers/Tenders	1	8.00	16	0.38
Demolition	Excavators	1	6.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Sweepers/Scrubbers	1	6.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Dumpers/Tenders	1	8.00	16	0.38
Site Preparation	Excavators	1	6.00	158	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Plate Compactors	1	6.00	8	0.43
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Sweepers/Scrubbers	1	6.00	64	0.46
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	1	6.00	8	0.43
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Sweepers/Scrubbers	1	6.00	64	0.46
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Air Compressors	1	4.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	2.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	2.00	81	0.73
Building Construction	Dumpers/Tenders	1	4.00	16	0.38
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	2	4.00	84	0.74
Building Construction	Plate Compactors	1	2.00	8	0.43
Building Construction	Pressure Washers	1	2.00	13	0.30
Building Construction	Pumps	2	4.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Skid Steer Loaders	1	4.00	65	0.37
Building Construction	Sweepers/Scrubbers	1	4.00	64	0.46
Building Construction	Welders	1	2.00	46	0.45
Paving	Concrete/Industrial Saws	1	2.00	81	0.73
Paving	Graders	1	4.00	187	0.41
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Plate Compactors	1	2.00	8	0.43
Paving	Rollers	1	6.00	80	0.38
Paving	Rubber Tired Loaders	1	4.00	203	0.36
Paving	Signal Boards	1	8.00	6	0.82
Paving	Skid Steer Loaders	1	6.00	65	0.37

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Sweepers/Scrubbers	1	4.00	64	0.46
Paving	Tractors/Loaders/Backhoes	2	4.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	9	23.00	1.00	49.00	10.80	7.30	50.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	10	25.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	1.00	1,343.00	10.80	7.30	50.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	26.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	11	28.00	1.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					5.3500e-003	0.0000	5.3500e-003	8.1000e-004	0.0000	8.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2028	0.1885	3.8000e-004		9.2100e-003	9.2100e-003		8.6000e-003	8.6000e-003	0.0000	32.9181	32.9181	8.8900e-003	0.0000	33.1405
Total	**0.0213**	**0.2028**	**0.1885**	**3.8000e-004**	**5.3500e-003**	**9.2100e-003**	**0.0146**	**8.1000e-004**	**8.6000e-003**	**9.4100e-003**	**0.0000**	**32.9181**	**32.9181**	**8.8900e-003**	**0.0000**	**33.1405**

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	1.1000e-004	8.9700e-003	2.7200e-003	4.0000e-005	1.0300e-003	6.0000e-005	1.0900e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	4.0906	4.0906	4.1000e-004	6.6000e-004	4.2974
Vendor	1.0000e-005	5.2000e-004	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2337	0.2337	1.0000e-005	3.0000e-005	0.2443
Worker	5.5000e-004	3.6000e-004	4.9100e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4803	1.4803	4.0000e-005	4.0000e-005	1.4923
Total	**6.7000e-004**	**9.8500e-003**	**7.8200e-003**	**6.0000e-005**	**3.0900e-003**	**7.0000e-005**	**3.1600e-003**	**8.3000e-004**	**7.0000e-005**	**9.0000e-004**	**0.0000**	**5.8046**	**5.8046**	**4.6000e-004**	**7.3000e-004**	**6.0340**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					2.4100e-003	0.0000	2.4100e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7200e-003	0.0463	0.2227	3.8000e-004		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	32.9181	32.9181	8.8900e-003	0.0000	33.1404
Total	**5.7200e-003**	**0.0463**	**0.2227**	**3.8000e-004**	**2.4100e-003**	**7.7000e-004**	**3.1800e-003**	**3.6000e-004**	**7.7000e-004**	**1.1300e-003**	**0.0000**	**32.9181**	**32.9181**	**8.8900e-003**	**0.0000**	**33.1404**

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	1.1000e-004	8.9700e-003	2.7200e-003	4.0000e-005	1.0300e-003	6.0000e-005	1.0900e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	4.0906	4.0906	4.1000e-004	6.6000e-004	4.2974
Vendor	1.0000e-005	5.2000e-004	1.9000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2337	0.2337	1.0000e-005	3.0000e-005	0.2443
Worker	5.5000e-004	3.6000e-004	4.9100e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.4803	1.4803	4.0000e-005	4.0000e-005	1.4923
Total	**6.7000e-004**	**9.8500e-003**	**7.8200e-003**	**6.0000e-005**	**3.0900e-003**	**7.0000e-005**	**3.1600e-003**	**8.3000e-004**	**7.0000e-005**	**9.0000e-004**	**0.0000**	**5.8046**	**5.8046**	**4.6000e-004**	**7.3000e-004**	**6.0340**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					0.2231	0.0000	0.2231	0.1079	0.0000	0.1079	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0658	0.6761	0.5181	1.1500e-003		0.0285	0.0285		0.0263	0.0263	0.0000	100.6906	100.6906	0.0320	0.0000	101.4913
Total	**0.0658**	**0.6761**	**0.5181**	**1.1500e-003**	**0.2231**	**0.0285**	**0.2516**	**0.1079**	**0.0263**	**0.1342**	**0.0000**	**100.6906**	**100.6906**	**0.0320**	**0.0000**	**101.4913**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.4800e-003	5.3000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6692	0.6692	4.0000e-005	1.0000e-004	0.6997
Worker	1.7000e-003	1.1100e-003	0.0153	5.0000e-005	6.2000e-003	3.0000e-005	6.2300e-003	1.6500e-003	3.0000e-005	1.6800e-003	0.0000	4.6077	4.6077	1.2000e-004	1.2000e-004	4.6451
Total	**1.7300e-003**	**2.5900e-003**	**0.0158**	**6.0000e-005**	**6.4100e-003**	**4.0000e-005**	**6.4400e-003**	**1.7100e-003**	**4.0000e-005**	**1.7500e-003**	**0.0000**	**5.2769**	**5.2769**	**1.6000e-004**	**2.2000e-004**	**5.3448**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					0.1004	0.0000	0.1004	0.0486	0.0000	0.0486	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1436	0.6516	1.1500e-003		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	100.6905	100.6905	0.0320	0.0000	101.4911
Total	**0.0185**	**0.1436**	**0.6516**	**1.1500e-003**	**0.1004**	**2.6100e-003**	**0.1030**	**0.0486**	**2.6100e-003**	**0.0512**	**0.0000**	**100.6905**	**100.6905**	**0.0320**	**0.0000**	**101.4911**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.4800e-003	5.3000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.6692	0.6692	4.0000e-005	1.0000e-004	0.6997
Worker	1.7000e-003	1.1100e-003	0.0153	5.0000e-005	6.2000e-003	3.0000e-005	6.2300e-003	1.6500e-003	3.0000e-005	1.6800e-003	0.0000	4.6077	4.6077	1.2000e-004	1.2000e-004	4.6451
Total	**1.7300e-003**	**2.5900e-003**	**0.0158**	**6.0000e-005**	**6.4100e-003**	**4.0000e-005**	**6.4400e-003**	**1.7100e-003**	**4.0000e-005**	**1.7500e-003**	**0.0000**	**5.2769**	**5.2769**	**1.6000e-004**	**2.2000e-004**	**5.3448**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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					0.3158	0.0000	0.3158	0.1525	0.0000	0.1525	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0884	0.9176	0.7074	1.5800e-003		0.0386	0.0386		0.0356	0.0356	0.0000	138.7453	138.7453	0.0446	0.0000	139.8614
Total	**0.0884**	**0.9176**	**0.7074**	**1.5800e-003**	**0.3158**	**0.0386**	**0.3544**	**0.1525**	**0.0356**	**0.1881**	**0.0000**	**138.7453**	**138.7453**	**0.0446**	**0.0000**	**139.8614**

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	3.1100e-003	0.2460	0.0744	1.0600e-003	0.0282	1.7100e-003	0.0299	7.7300e-003	1.6400e-003	9.3700e-003	0.0000	112.1150	112.1150	0.0114	0.0181	117.7834
Vendor	5.0000e-005	2.1000e-003	7.5000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.9454	0.9454	6.0000e-005	1.4000e-004	0.9884
Worker	2.2100e-003	1.4400e-003	0.0198	7.0000e-005	8.0600e-003	4.0000e-005	8.1000e-003	2.1400e-003	4.0000e-005	2.1800e-003	0.0000	5.9886	5.9886	1.5000e-004	1.5000e-004	6.0372
Total	**5.3700e-003**	**0.2495**	**0.0950**	**1.1400e-003**	**0.0365**	**1.7600e-003**	**0.0383**	**9.9500e-003**	**1.6900e-003**	**0.0116**	**0.0000**	**119.0490**	**119.0490**	**0.0116**	**0.0184**	**124.8090**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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					0.1421	0.0000	0.1421	0.0686	0.0000	0.0686	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.1815	0.9008	1.5800e-003		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003	0.0000	138.7451	138.7451	0.0446	0.0000	139.8612
Total	**0.0228**	**0.1815**	**0.9008**	**1.5800e-003**	**0.1421**	**2.8900e-003**	**0.1450**	**0.0686**	**2.8900e-003**	**0.0715**	**0.0000**	**138.7451**	**138.7451**	**0.0446**	**0.0000**	**139.8612**

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	3.1100e-003	0.2460	0.0744	1.0600e-003	0.0282	1.7100e-003	0.0299	7.7300e-003	1.6400e-003	9.3700e-003	0.0000	112.1150	112.1150	0.0114	0.0181	117.7834
Vendor	5.0000e-005	2.1000e-003	7.5000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.9454	0.9454	6.0000e-005	1.4000e-004	0.9884
Worker	2.2100e-003	1.4400e-003	0.0198	7.0000e-005	8.0600e-003	4.0000e-005	8.1000e-003	2.1400e-003	4.0000e-005	2.1800e-003	0.0000	5.9886	5.9886	1.5000e-004	1.5000e-004	6.0372
Total	**5.3700e-003**	**0.2495**	**0.0950**	**1.1400e-003**	**0.0365**	**1.7600e-003**	**0.0383**	**9.9500e-003**	**1.6900e-003**	**0.0116**	**0.0000**	**119.0490**	**119.0490**	**0.0116**	**0.0184**	**124.8090**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0564	0.4921	0.6594	1.0900e-003		0.0235	0.0235		0.0229	0.0229	0.0000	93.6368	93.6368	0.0123	0.0000	93.9436
Total	**0.0564**	**0.4921**	**0.6594**	**1.0900e-003**		**0.0235**	**0.0235**		**0.0229**	**0.0229**	**0.0000**	**93.6368**	**93.6368**	**0.0123**	**0.0000**	**93.9436**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	4.0500e-003	1.4500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	1.8271	1.8271	1.1000e-004	2.7000e-004	1.9102
Worker	2.4100e-003	1.5700e-003	0.0217	7.0000e-005	8.8000e-003	4.0000e-005	8.8400e-003	2.3400e-003	4.0000e-005	2.3800e-003	0.0000	6.5415	6.5415	1.7000e-004	1.6000e-004	6.5946
Total	**2.5000e-003**	**5.6200e-003**	**0.0231**	**9.0000e-005**	**9.3600e-003**	**6.0000e-005**	**9.4200e-003**	**2.5000e-003**	**6.0000e-005**	**2.5600e-003**	**0.0000**	**8.3686**	**8.3686**	**2.8000e-004**	**4.3000e-004**	**8.5048**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0181	0.1332	0.7117	1.0900e-003		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	93.6367	93.6367	0.0123	0.0000	93.9435
Total	**0.0181**	**0.1332**	**0.7117**	**1.0900e-003**		**2.8300e-003**	**2.8300e-003**		**2.8300e-003**	**2.8300e-003**	**0.0000**	**93.6367**	**93.6367**	**0.0123**	**0.0000**	**93.9435**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.0000e-005	4.0500e-003	1.4500e-003	2.0000e-005	5.6000e-004	2.0000e-005	5.8000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	1.8271	1.8271	1.1000e-004	2.7000e-004	1.9102
Worker	2.4100e-003	1.5700e-003	0.0217	7.0000e-005	8.8000e-003	4.0000e-005	8.8400e-003	2.3400e-003	4.0000e-005	2.3800e-003	0.0000	6.5415	6.5415	1.7000e-004	1.6000e-004	6.5946
Total	**2.5000e-003**	**5.6200e-003**	**0.0231**	**9.0000e-005**	**9.3600e-003**	**6.0000e-005**	**9.4200e-003**	**2.5000e-003**	**6.0000e-005**	**2.5600e-003**	**0.0000**	**8.3686**	**8.3686**	**2.8000e-004**	**4.3000e-004**	**8.5048**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.1080	0.9447	1.3399	2.2300e-003		0.0420	0.0420		0.0409	0.0409	0.0000	190.5379	190.5379	0.0246	0.0000	191.1531
Total	**0.1080**	**0.9447**	**1.3399**	**2.2300e-003**		**0.0420**	**0.0420**		**0.0409**	**0.0409**	**0.0000**	**190.5379**	**190.5379**	**0.0246**	**0.0000**	**191.1531**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	8.1600e-003	2.9400e-003	4.0000e-005	1.1400e-003	4.0000e-005	1.1900e-003	3.3000e-004	4.0000e-005	3.7000e-004	0.0000	3.6520	3.6520	2.3000e-004	5.4000e-004	3.8185
Worker	4.6500e-003	2.8700e-003	0.0415	1.4000e-004	0.0179	8.0000e-005	0.0180	4.7700e-003	8.0000e-005	4.8400e-003	0.0000	12.8783	12.8783	3.1000e-004	3.1000e-004	12.9791
Total	**4.8300e-003**	**0.0110**	**0.0444**	**1.8000e-004**	**0.0191**	**1.2000e-004**	**0.0192**	**5.1000e-003**	**1.2000e-004**	**5.2100e-003**	**0.0000**	**16.5303**	**16.5303**	**5.4000e-004**	**8.5000e-004**	**16.7976**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0364	0.2702	1.4479	2.2300e-003		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	190.5377	190.5377	0.0246	0.0000	191.1529
Total	**0.0364**	**0.2702**	**1.4479**	**2.2300e-003**		**5.5800e-003**	**5.5800e-003**		**5.5800e-003**	**5.5800e-003**	**0.0000**	**190.5377**	**190.5377**	**0.0246**	**0.0000**	**191.1529**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	8.1600e-003	2.9400e-003	4.0000e-005	1.1400e-003	4.0000e-005	1.1900e-003	3.3000e-004	4.0000e-005	3.7000e-004	0.0000	3.6520	3.6520	2.3000e-004	5.4000e-004	3.8185
Worker	4.6500e-003	2.8700e-003	0.0415	1.4000e-004	0.0179	8.0000e-005	0.0180	4.7700e-003	8.0000e-005	4.8400e-003	0.0000	12.8783	12.8783	3.1000e-004	3.1000e-004	12.9791
Total	**4.8300e-003**	**0.0110**	**0.0444**	**1.8000e-004**	**0.0191**	**1.2000e-004**	**0.0192**	**5.1000e-003**	**1.2000e-004**	**5.2100e-003**	**0.0000**	**16.5303**	**16.5303**	**5.4000e-004**	**8.5000e-004**	**16.7976**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0211	0.2069	0.2286	4.4000e-004		8.8100e-003	8.8100e-003		8.1800e-003	8.1800e-003	0.0000	37.7377	37.7377	0.0111	0.0000	38.0161
Paving	8.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0219**	**0.2069**	**0.2286**	**4.4000e-004**		**8.8100e-003**	**8.8100e-003**		**8.1800e-003**	**8.1800e-003**	**0.0000**	**37.7377**	**37.7377**	**0.0111**	**0.0000**	**38.0161**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	1.0300e-003	3.7000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4591	0.4591	3.0000e-005	7.0000e-005	0.4800
Worker	1.2600e-003	7.8000e-004	0.0112	4.0000e-005	4.8500e-003	2.0000e-005	4.8700e-003	1.2900e-003	2.0000e-005	1.3100e-003	0.0000	3.4871	3.4871	8.0000e-005	8.0000e-005	3.5143
Total	**1.2800e-003**	**1.8100e-003**	**0.0116**	**4.0000e-005**	**4.9900e-003**	**3.0000e-005**	**5.0200e-003**	**1.3300e-003**	**3.0000e-005**	**1.3600e-003**	**0.0000**	**3.9462**	**3.9462**	**1.1000e-004**	**1.5000e-004**	**3.9944**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	7.2900e-003	0.0627	0.2754	4.4000e-004		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	37.7377	37.7377	0.0111	0.0000	38.0160
Paving	8.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.1000e-003**	**0.0627**	**0.2754**	**4.4000e-004**		**1.0300e-003**	**1.0300e-003**		**1.0300e-003**	**1.0300e-003**	**0.0000**	**37.7377**	**37.7377**	**0.0111**	**0.0000**	**38.0160**

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	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	1.0300e-003	3.7000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4591	0.4591	3.0000e-005	7.0000e-005	0.4800
Worker	1.2600e-003	7.8000e-004	0.0112	4.0000e-005	4.8500e-003	2.0000e-005	4.8700e-003	1.2900e-003	2.0000e-005	1.3100e-003	0.0000	3.4871	3.4871	8.0000e-005	8.0000e-005	3.5143
Total	**1.2800e-003**	**1.8100e-003**	**0.0116**	**4.0000e-005**	**4.9900e-003**	**3.0000e-005**	**5.0200e-003**	**1.3300e-003**	**3.0000e-005**	**1.3600e-003**	**0.0000**	**3.9462**	**3.9462**	**1.1000e-004**	**1.5000e-004**	**3.9944**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.2564					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.2580**	**0.0110**	**0.0163**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

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	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	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.2000e-004	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2547	0.2547	1.0000e-005	1.0000e-005	0.2567
Total	**9.0000e-005**	**6.0000e-005**	**8.2000e-004**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2547**	**0.2547**	**1.0000e-005**	**1.0000e-005**	**0.2567**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.2564					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	1.1600e-003	0.0165	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.2567**	**1.1600e-003**	**0.0165**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

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	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	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.2000e-004	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2547	0.2547	1.0000e-005	1.0000e-005	0.2567
Total	**9.0000e-005**	**6.0000e-005**	**8.2000e-004**	**0.0000**	**3.5000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2547**	**0.2547**	**1.0000e-005**	**1.0000e-005**	**0.2567**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0313	0.0287	0.2998	6.2000e-004	0.0711	4.1000e-004	0.0715	0.0190	3.8000e-004	0.0194	0.0000	57.4178	57.4178	3.9000e-003	2.5400e-003	58.2716
Unmitigated	0.0313	0.0287	0.2998	6.2000e-004	0.0711	4.1000e-004	0.0715	0.0190	3.8000e-004	0.0194	0.0000	57.4178	57.4178	3.9000e-003	2.5400e-003	58.2716

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	84.96	85.86	76.95	193,878	193,878
Total	84.96	85.86	76.95	193,878	193,878

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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.465403	0.073585	0.235906	0.146720	0.025583	0.006412	0.010355	0.002060	0.001446	0.000572	0.028871	0.000432	0.002657
Other Non-Asphalt Surfaces	0.465403	0.073585	0.235906	0.146720	0.025583	0.006412	0.010355	0.002060	0.001446	0.000572	0.028871	0.000432	0.002657
Single Family Housing	0.465403	0.073585	0.235906	0.146720	0.025583	0.006412	0.010355	0.002060	0.001446	0.000572	0.028871	0.000432	0.002657

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

308 Phelps Road Subdivision (San Carlos) - Mitigated - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	70396.5	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	70396.5	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive 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	0.1672	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Unmitigated	0.1672	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128

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	0.0256					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1395					0.0000	0.0000		0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0500e-003	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Total	**0.1672**	**7.7000e-004**	**0.0673**	**0.0000**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**0.1101**	**0.1101**	**1.1000e-004**	**0.0000**	**0.1128**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0256					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1395					0.0000	0.0000		0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0500e-003	7.7000e-004	0.0673	0.0000		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	0.1101	0.1101	1.1000e-004	0.0000	0.1128
Total	**0.1672**	**7.7000e-004**	**0.0673**	**0.0000**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**0.1101**	**0.1101**	**1.1000e-004**	**0.0000**	**0.1128**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1860	0.0191	4.5000e-004	0.7982
Unmitigated	0.1860	0.0191	4.5000e-004	0.7982

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.586386 / 0.369678	0.1860	0.0191	4.5000e-004	0.7982
Total		**0.1860**	**0.0191**	**4.5000e-004**	**0.7982**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.586386 / 0.369678	0.1860	0.0191	4.5000e-004	0.7982
Total		**0.1860**	**0.0191**	**4.5000e-004**	**0.7982**

8.0 Waste Detail

8.1 Mitigation Measures Waste

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.2167	0.1310	0.0000	5.4917
Unmitigated	2.2167	0.1310	0.0000	5.4917

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.92	2.2167	0.1310	0.0000	5.4917
Total		**2.2167**	**0.1310**	**0.0000**	**5.4917**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	10.92	2.2167	0.1310	0.0000	5.4917
Total		**2.2167**	**0.1310**	**0.0000**	**5.4917**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation

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SAN JOSE, CA 95131
650.327.0429
WWW.MIGCOM.COM

Memo

To: Kate Werner

CC: Chris Dugan, MIG

From: Phil Gleason

Date: November 18, 2022

SUBJECT: 308-310 Phelps Road Residential Subdivision Project Construction Health Risk Assessment

This memorandum describes the methodology and results of the health risk assessment prepared for the proposed 308-310 Phelps Road Residential Subdivision Project (proposed project) in the City of Santa Carlos, California. As explained in this memorandum, the proposed project would not result in risks exceed the BAAQMD-recommended significance threshold of 10 excess cancers per million population after the implementation of MIG's proposed mitigation.

Construction Exhaust $PM_{2.5}$ Modeling Methodology

Construction activities associated with the proposed project would generate on- and off-site exhaust emissions, including diesel particulate matter (DPM), in the form of $PM_{2.5}$. The specific quantity of emissions emitted at any given time would be dependent on the type and number of pieces of equipment operating, the equipment's engine classification, the equipment's horsepower, and the load the engine is under. Off-site emissions would be generated from haul trucks used to export waste and soil to and from the site.

The United State Environment Protection Agency's (EPA) AERMOD dispersion model (version 21112) was used to predict pollutant concentrations at existing sensitive receptors near the project site. The AERMOD dispersion model is an EPA-approved and Bay Area Air Quality Management District (BAAQMD)-recommended model for simulating the dispersion of pollutant emissions and estimating ground level concentrations of pollutants at specified receptor locations. AERMOD requires the user to input information on the source(s) of pollutants being modeled, the receptors where pollutant concentrations are modeled, and the meteorology, terrain, and other factors that affect the potential dispersion of pollutants. These variables are described below.

Modeled Construction Sources / Emission Rates

On- and off-site construction emissions were modeled as a series of area and line area sources, as shown in Table A2-1 and Figure A2-1. Consistent with BAAQMD-recommendations, $PM_{2.5}$ construction exhaust emissions were presumed to be 100 percent DPM; $PM_{2.5}$ fugitive dust emissions were not modeled to determine total combined $PM_{2.5}$ exposure pursuant to BAAQMD CEQA Guidelines and guidance provided by staff of the BAAQMD's Planning and Climate Protection Division (BAAQMD 2017). An emissions rate for each source listed in Table A2-1 was derived from the CalEEMod emissions estimates shown in Appendix A1. The annual emissions

generated during construction of the proposed project were converted to an average emission rate in terms of grams / second per hour per hour of construction activity.[1]

On-site DPM emissions were modeled as a series of polygon area sources. Two area sources were modeled for Year 1, which activities that would occur throughout the entire site (e.g., demolition, site preparation, and grading) and those that would generally occur in proximity of the buildings being constructed. Year 2 onsite construction emissions that would occur in proximity of the buildings being constructed were modeled as a polygon area source, while the activities that would be undertaken to improve Sheldon Avenue (i.e., to the northwest of the site) were modeled as a line area source. The Sacramento Metro Air Quality Management District (SMAQMD) recommends a release height of 5 meters. Since the BAAQMD does not have a recommended release height for $PM_{2.5}$ exhaust emissions generated by construction equipment, the SMAQMD's release heights have been used instead (SMAQMD 2013).

Off-site DPM emissions from vehicles were modeled as line area sources. All haul trips were assumed to travel from the project site, south on Phelps Road, and then on the portion of San Carlos Avenue east of the project site. Hauling and vendor trips were modeled as area line sources, with a release height of 4.15 meters, the approximate height of a truck exhaust.

Table A2-1: AERMOD Source Parameters

Source ID	Source Description	UTM Coordinates(A)		Size (m^2)
		X	Y	
PAREA01	Year 1: Onsite (Entire Site)	564088.79	4151129.31	13,325.9
PAREA02	Year 1: Onsite (Building Proximity)	564114.18	4151199.28	7,820.8
PAREA03	Year 2: Onsite (Building Proximity)	564114.18	4151199.28	7,821.5
ARLN01	Year 2: Onsite (Sheldon Ave)(B)	563757.07	4151341.62	494.2(C)
ARLN02	Year 1: Offsite	564117.48	4151106.95	514.4(C)
ARLN03	Year 2: Offsite	564117.48	4151106.95	514.4(C)

(A) UTM coordinates represent the southwest corner of the source.
(B) Eighty percent (80%) of the "Paving" phase emissions were assigned to the Sheldon Avenue line area source, because it would also require grading of that unimproved roadway. Paving activities at the buildings (assumed to be approximately 20% of the "Paving" phase emissions) are anticipated to be less intensive.
(C) Reflects length of line area source in meters

Meteorological Data Inputs

AERMOD requires meteorological data as an input into the model. The meteorological data is processed using AERMET, a pre-processor to AERMOD. AERMET requires surface meteorological data, upper air meteorological data, and surface parameter data such as albedo (reflectivity) and surface roughness. For the proposed project, pre-processed surface data was obtained from the BAAQMD for San Carlos Airport, the closest meteorological station to the project site (see Figure A2-2). Five complete years of meteorological data from January 2013 to December 2017 were utilized. The meteorological data was processed using AERMET version 18081 with the adjusted U*. Emissions were modeled to be generated during potential construction hours only.

[1]The average emissions rate is based on 3,432 active construction hours for Years 1 and 2; this reflects construction occurring Monday through Friday, 8 AM to 6 PM and Saturday and Sunday, 9 AM to 5 PM.

Figure A2-1: Modeled Construction Emissions Sources

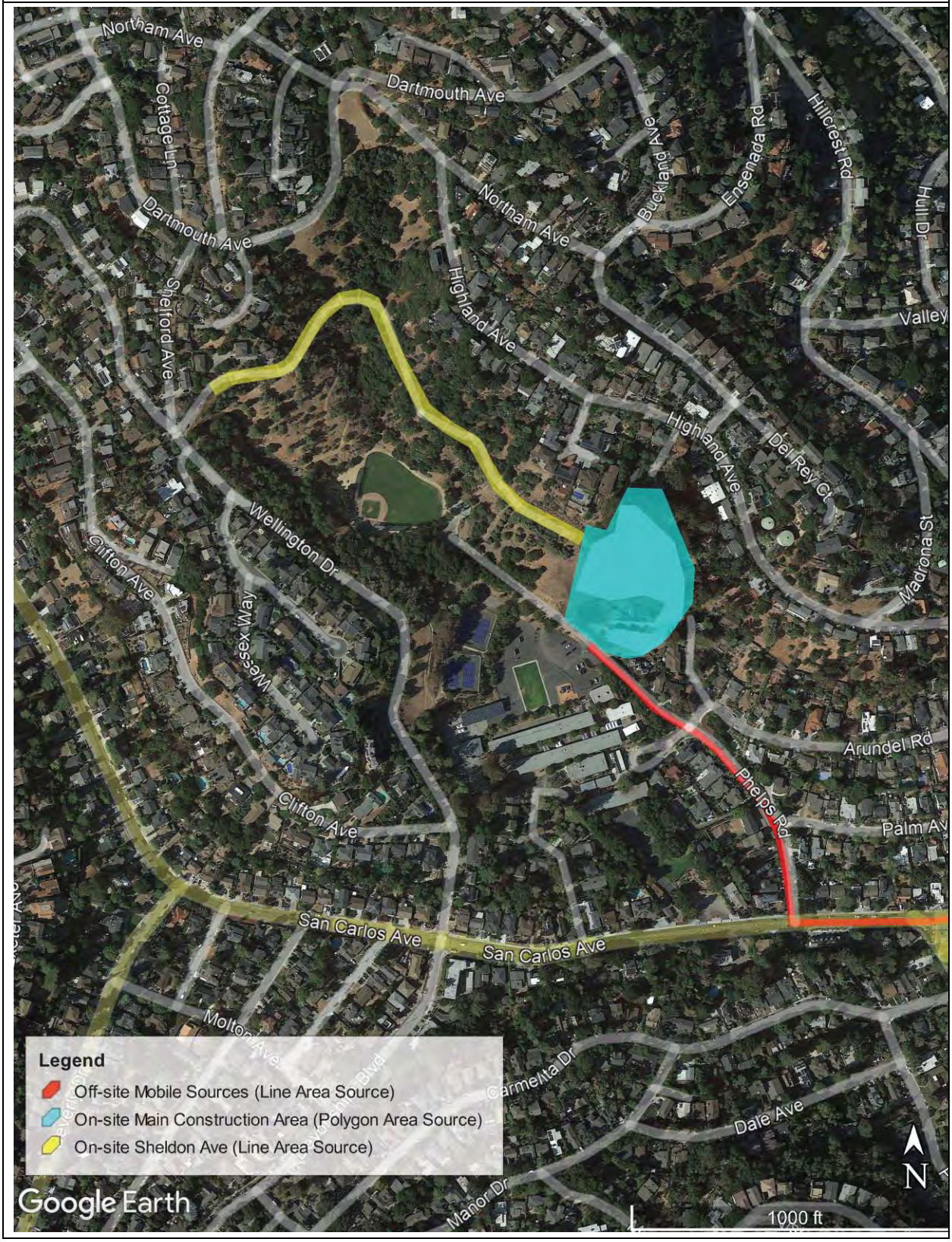
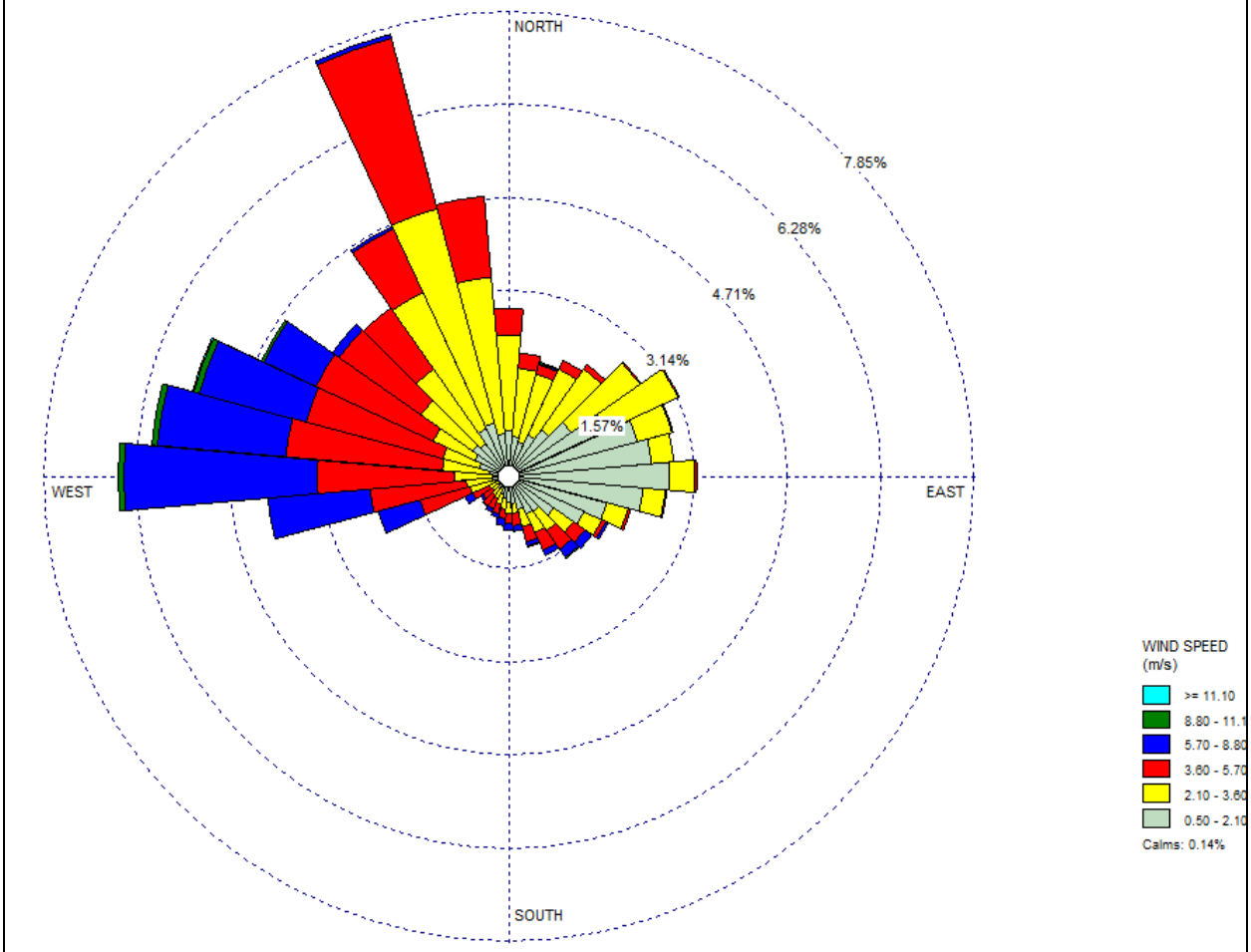


Figure A2-2: Wind Rose for San Carlos Airport



Source: BAAQMD 2022

Terrain Inputs

The project site is located in the hills of San Carlos and is higher in elevation than the land uses west and southwest of the project site. These land uses to the west and southwest are downwind of the project site based on prevailing wind conditions shown in Figure A2-2. As identified in the U.S. EPA's *AERMOD Implementation Guide*:

> "For cases in which receptor elevations are lower than the base elevation of the source (i.e., receptors that are down-slope of the source), AERMOD will predict concentrations that are less than what would be estimated from an otherwise identical flat terrain situation… To avoid underestimating concentrations in such situations, it may be reasonable in cases of terrain-following plumes in sloping terrain to apply the non-DFAULT (sic) option to assume flat, level terrain" (U.S. EPA 2022a; pg. 12).

Consistent with this guidance from the U.S. EPA, the non-regulatory "Flat" terrain option was selected, meaning that AERMOD does not account for terrain in the dispersion modeling.

Modeled Receptors

A coarse receptor grid, with a grid spacing of 50 meters by 50 meters out to 1000 meters, was centered on 564184.00 m E and 4151187.00 m N (i.e., the center of the project site). The grid was converted to 441 discrete Cartesian receptors. A second grid, with a spacing of 10 meters by 10 meters out to 120 meters in the x-direction and 90 meters in the y-direction, was placed over Arundel Elementary School and centered on 564084.00 m E and 4151187.00 m N. This

grid was also converted to 130 discrete Cartesian receptors. An additional 59 discrete were manually added to the model on residences in proximity of the project site. A plant blanking boundary was drawn around the site, and the five (5) discrete Cartesian receptors that were located within the plant boundary were removed, yielding a total of 625 discrete Cartesian receptors modeled. All modeled receptors were assigned a flagpole breathing height of 1.5 meters above ground surface, consistent with BAAQMD guidance.

Health Risk Analysis Methodology

Cancer risk and non-cancer health risks to sensitive receptors within one-quarter mile of on-site sources were estimated using the U.S. EPA's AERMOD dispersion model and recommendations contained in the BAAQMD's *Health Risks Assessment Modeling Protocol,* as well as the OEHHA *Air Toxics Hot Spots Program Guidance Manual*.

Cancer Risk

Cancer risk is the calculated, pollutant-specific estimated probability of developing cancer based upon the dose and exposure to the toxic air contaminants (TAC). Cancer risk is determined by calculating the combinatory effects of the cancer potency factor (CPF) when inhaling the toxic, the daily inhalation dose, the age group the receptor is cohort to, the duration of exposure over a lifetime (70 years), and other factors such as age sensitivity and the amount of time spent at the location of exposure. Risks were assessed for the inhalation pathway (i.e., breathing) for both residential receptors. Additionally, residential receptors were assessed under a 70-year exposure duration to further detail potential risk to those under lifetime exposure. Cancer risk equations for residential are summarized in Table A2-2 and A2-3.

Exposure to receptors was assessed for the two years in which construction activities would take place and the receptors would be exposed to construction $PM_{2.5}$ emissions. The exposure time is consistent with the construction schedule described in the Initial Study prepared for the project.

Table A2-2: Cancer Risk Equations	
Equation 1 – Residential/Student Risk:	$RISK_{INH.RES} = DOSE_{AIR.RES} \times CPF \times ASF \times \frac{ED}{AT} \times FAH$
Equation 2 – Worker Risk:	$RISK_{INH.WORK} = DOSE_{AIR.WORK} \times CPF \times ASF \times \frac{ED}{AT}$
Where:	
$DOSE_{AIR}$ =	Daily Inhalation Dose (mg/kg-day). See Table A2-3.
CPF =	Cancer Potency Factor for Inhalants (mg/kg-day). CPF is expressed as the 95th percent upper confidence limit of the slope of the dose response curve under continuous lifetime exposure conditions. The CPF for diesel exhaust is 1.1 mg/kg-day.
ASF =	Age Sensitivity Factor. ASF is a protective coefficient intended to take into account increased susceptibility to long-term health effects from early-life exposure to TACs. The recommended ASFs are 10 for the third-trimester to birth and two-year age bins, three (3) for the two-year to nine-year and 16-year age bins, and one (1) for receptors over 16 years of age.
ED =	Exposure Duration (years). Exposure duration characterizes the duration of time the receptor or student would be exposed to pollutant concentrations from the project. For the proposed project, an ED of two (2) years was applied to both residential and student receptors, which covers the duration of construction activities.
AT =	Averaging Time (years). A 70-year (lifetime) averaging time is used to characterize to total risk as a factor of average risk over a typical lifespan.
FAH =	Fraction at Home. FAH is the percentage of time the receptor is physically at the receptor location. The school southwest of the project site would be located within the 1.0 in-a-million cancer risk isopleth. Therefore, consistent with OEHHA recommendations, the residential FAH was set to 100% for the third-trimester to birth, zero-to two, and two-to-nine year age bins. Receptors over 16 years of age had their FAH set to 73%. School receptors had their FAH set to 44%, which reflects them being at the site for 10.5 hours (7:30 AM to 6 PM), which covers before and after school care.

Table A2-3: Inhalation Dose Equations	
Residential/Student Dose	$DOSE_{AIR.RES} = C_{AIr} \times \frac{BR}{BW} \times A \times EF \times 10^{-6}$
Where:	
C_{AIR} =	Concentration of TAC in air (µg/m^3). Concentration of toxic in micrograms per one cubic meter of air. The AERMOD program is used in the study to determine concentrations of diesel particulate matter at surrounding discrete and grid receptor points.
BR/BW =	Breathing Rate ÷ Body Weight (L/kg/day). Daily breathing rate normalized to body weight. The 95th percentile breathing rate to body weight ratios are used in this study with a recommended 361 L/kg/day for the third-trimester to birth age bin and 1,090 L/kg/day for the birth to two-years age bin. The 80th percentile breathing rate to body weight ratios are used in this study for residential receptors with a recommended 361 L/kg/day for the 3rd Trimester age bin, 1,090 L/kg/day for the zero-to-two age bin, 572 L/kg/day for the two-years to 16-years age bin, 261 L/kg/day for the 16-years to 30-years age bin, and 233 L/kg/day for the 16-years to 70-years age bin. The 95th percentile breathing rate to body weight 8-hour ratios for used for student receptors. Children two-to-nine years old were evaluated using a breathing rate to body weight ratio of 640 L/kg/day and nine-to-sixteen year old receptors were evaluated using a ratio of 520 L/kg/day.
A =	Inhalation Absorption Factor. Is a coefficient that reflects the fraction of chemical absorbed in studies used in the development of CPF and Reference Exposure Levels (RELs). An absorption factor of one is recommended for all chemicals.
EF =	Exposure Frequency. EF is the ratio of days in a year that a receptor is receiving the dose. The recommended EF is 0.96 characterizing an assumed 350 days a year that a residential receptor is home for some portion of the day. The EF applied to student receptors was 0.49, which addresses the 180 mandated school days student receptors are required to be at school.

Non-Cancer Risk

The chronic non-cancer hazard quotient is the calculated pollutant-specific indicator for risk of developing an adverse health effect on specific organ system(s) targeted by the identified TAC, in this DPM. The potential for exposure to result in chronic non-cancer effects is evaluated by comparing the estimated annual average air concentration to the chemical-specific, non-cancer chronic reference exposure levels (RELs). The REL is a concentration below which there is assumed to be no observable adverse health impact to a target organ system. When calculated for a single chemical, the comparison yields a ratio termed a hazard quotient. To evaluate the potential for adverse chronic non-cancer health effects from simultaneous exposure to multiple chemicals, the hazard quotients for all chemicals are summed, yielding a hazard index. The chronic REL for DPM was established by OEHHA as 5 µg/m^3. For an acute hazard quotient, the one-hour maximum concentration is divided by the acute REL for the substance; however, there is no acute REL for DPM.

Chronic non-cancer risks are considered significant if a project's TAC emissions result in a hazard index greater than or equal to one. Non-cancer risk equations are summarized in Table A2-4.

Table A2-4: Non-Cancer Risk Equation	
Chronic Hazard Quotient:	$HI_{DPM} = \frac{C_{DPM}}{REL_{AAC}}$
Where:	
HI_{DPM} =	Hazard Index; an expression of the potential for non-cancer health effects.
C_{DPM} =	Annual average DPM concentration (µg/m^3).
REL_{DPM} =	Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

Health Risks Assessment Results

The results of the construction HRA are presented below.

Individual Cancer Risk from Exposure to DPM

The predicted location of the annual, unmitigated point of maximum impact (PMI) and the maximally exposed individual resident (MEIR) for DPM exposure during construction, along with contours of pollutant concentrations in proximity of the project site, for Year 1 and Year 2 are shown at the end of the document in Figure A2-4 and Figure A2-5, respectively. See Appendix A4 for the HRA output. The predicted MEIR and PMI are located in the same spot, immediately southwest of the project site at 5 Spring Valley Way in the City of San Carlos, CA 94070 (5641913.23 m E; 4151093.66 m N). Accordingly, health risks were assessed at this MEIR location. The HRA for residential receptors evaluated worst-case carcinogenic and non-carcinogenic risks to child (3rd trimester, 0-2 years, and 2-16 years) and adult (16-30 years and 30-70 years) receptors. The maximally exposed individual student (MEIS) would be located at the northeastern-most building of the Arundel Elementary School, across the road from 325 Phelps Road in the City of San Carlos, CA 94070 (564134.00 m E; 4151067.00 m N). Potential adverse health effect associated with student exposure to construction emissions were also assessed based on modeled concentrations at this location.

As shown in Table A2-5, construction exhaust emissions would have the potential to result in incremental cancerogenic health risk increases to the MEIR that are in excess of the BAAQMD's threshold of 10 excess cancers in a million. Risks to the MEIS, as shown in Table A2-6, would be below the BAAQMD's threshold of 10 excess cancers per million.

To reduce potential DPM concentrations (and associated health risks) at the MEIR location, MIG recommends incorporating the following mitigation.

> **Impact:** Construction equipment would generate DPM emissions that could result in adverse health risks that are above applicable BAAQMD thresholds.
>
> **Recommended Mitigation Measure:** To reduce potential, short-term adverse health risks associated with $PM_{2.5}$ emissions, including emissions of diesel particulate matter (DPM) generated during project construction activities, the City shall require the project Applicant and/or its designated contractors, contractor's representatives, or other appropriate personnel to comply with the following construction equipment restrictions:
>
> - All mobile construction equipment greater than 50 horsepower in size shall meet with U.S. EPA and CARB Tier IV Exhaust Emission Standards. This may be achieved via the use of equipment with engines that have been certified to meet U.S. EPA and CARB Tier IV emissions standards, or through the use of equipment that has been retrofitted with a CARB-verified diesel emission control strategy (e.g., particulate filter) capable of reducing exhaust $PM_{2.5}$ emissions to levels that meet U.S. EPA and CARB Tier IV emissions standards.

Effectiveness: This measure would reduce potential carcinogenic health risks by approximately 88.7 percent.

Implementation: The Applicant shall include this requirement on all appropriate bid, contract, and engineering and site plan (e.g., building, grading, and improvement plans) documents.

Timing: During construction activities.

Monitoring: The City shall review all appropriate bid, contract, and engineering and site plan documents for inclusion of this requirement and verify the construction equipment utilized during construction meet the Tier IV emission standards.

The above Recommended Mitigation Measure would require all mobile diesel construction equipment greater than 50 horsepower to meet U.S. EPA Tier IV emission standards. This measure is estimated to reduce construction-related $PM_{2.5}$ emissions by approximately 88.7%, reducing the project's potential adverse health risks from construction activities to levels that are below BAAQMD threshold. Figures A2-6 and A2-7 shows contours of pollutant concentrations in proximity of the project site for Year 1 and Year 2 respectively of mitigated construction. Table A2-5 and Table A2-6 summarize the project's construction health risk estimates after the incorporation of the Recommended Mitigation Measure.

Non-Cancer Risk

The maximum annual average DPM concentration at any long-term receptor location under mitigated conditions would be approximately 0.0300 µg/m^3, which would occur at the MEIR location during Year 1 of construction. Based on the chronic inhalation REL for DPM (5 µg/m^3), the calculated chronic hazard quotient during the maximum exposure to DPM concentration would be 0.00599, which is below the BAAQMD's non-cancer hazard index threshold value of 1.0. The annual average DPM concentration at the MEIR location in Year 2 of construction would be less than Year 1 and, therefore, would also be below the BAAQMD's non-cancer hazard index.

Table A2-5: Maximum Increased Cancer Risk at MEIR from Project Construction DPM Emissions

Receptor Age Range	**Health Risk Increase at MEIR(A) (Excess Cancer Risk per Million Population)**	
	Unmitigated	**Mitigated**
Residential Child Receptor (3rd Trimester)	76.4	8.6
Residential Child Receptor (0-2 Years of Age)	51.9	5.4
Residential Child Receptor (2 -16 Years of Age)	11.4	1.3
Residential Adult Receptor (16 to 30 Years of Age)	1.3	0.1
Residential Adult Receptor (30 to 70 Years of Age)	1.1	0.1
BAAQMD Significance Threshold	10	10
Threshold Exceeded?	**Yes**	**No**

Source: MIG, 2022 (see Appendix A.4)
(A) MEIR is located at 564191.23 m E and 4151093.66 m N

Table A2-6: Maximum Increased Cancer Risk at MEIS from Project Construction DPM Emissions		
Receptor Age Range	**Health Risk Increase at MEIS(A) (Excess Cancer Risk per Million Population)**	
	Unmitigated	**Mitigated**
Student Receptor (2-9 Years of Age)	1.5	0.2
Student Receptor (2 -16 Years of Age)	1.2	0.1
BAAQMD Significance Threshold	10	10
Threshold Exceeded?	**No**	**No**
Source: MIG, 2022 (see Appendix A.4) (B) MEIS is located at 564134.00 m E and 4151067.00 m N.		

Figure A2-4: Construction Health Risk Assessment – Unmitigated Year 1 (µg/m^3)

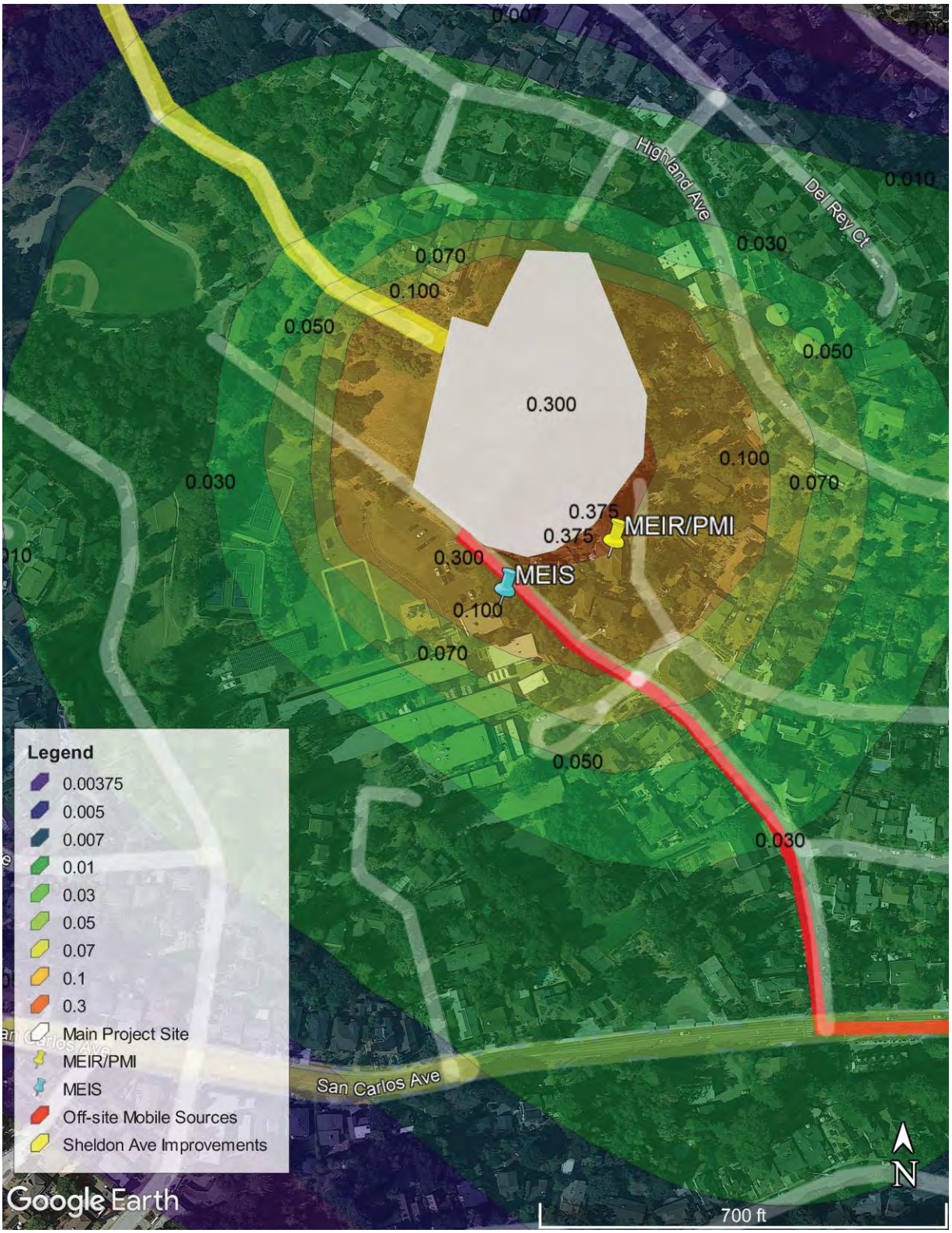


Figure A2-5: Construction Health Risk Assessment – Unmitigated Year 2 (µg/m^3)

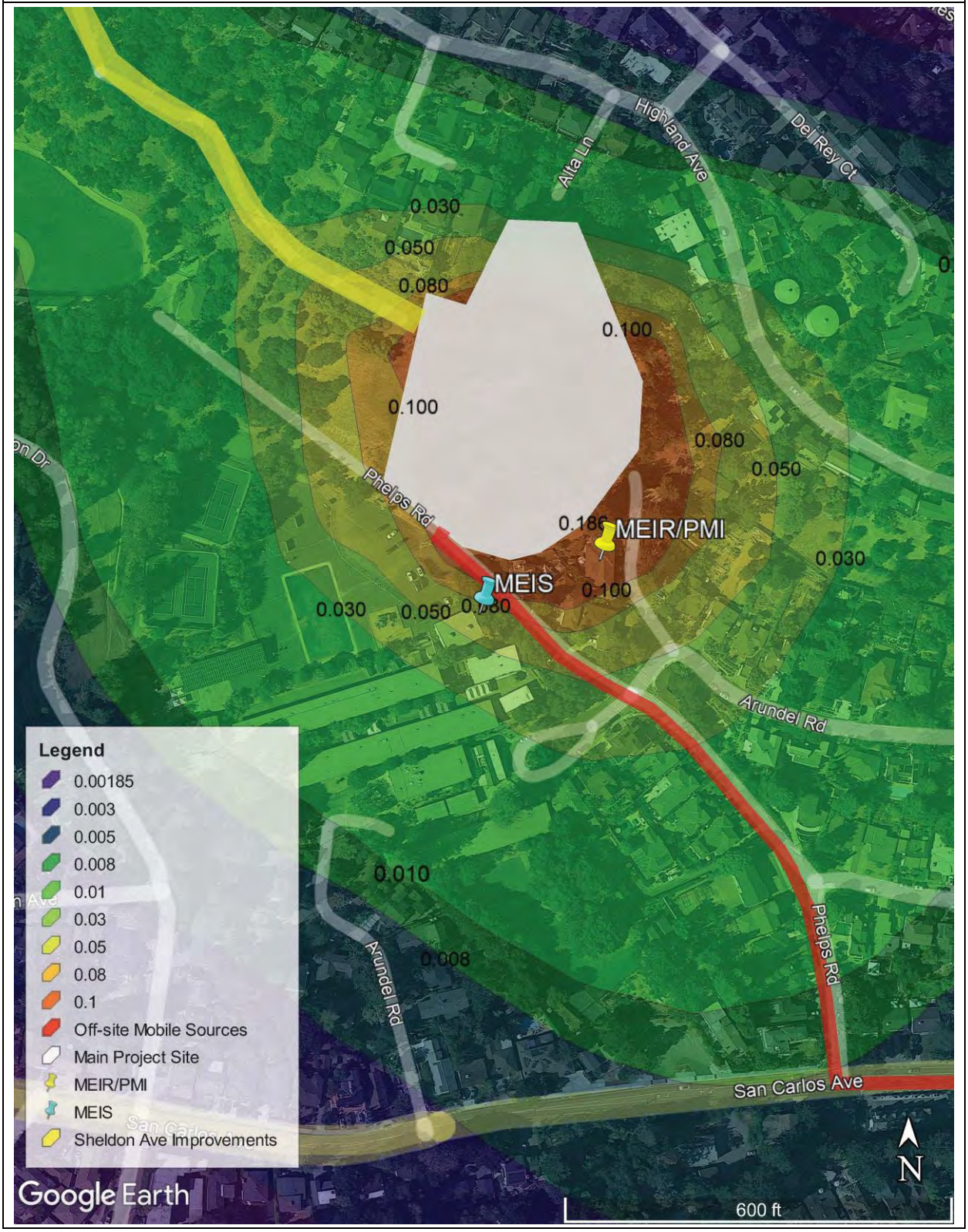


Figure A2-6: Construction Health Risk Assessment – Mitigated Year 2 (µg/m^3)

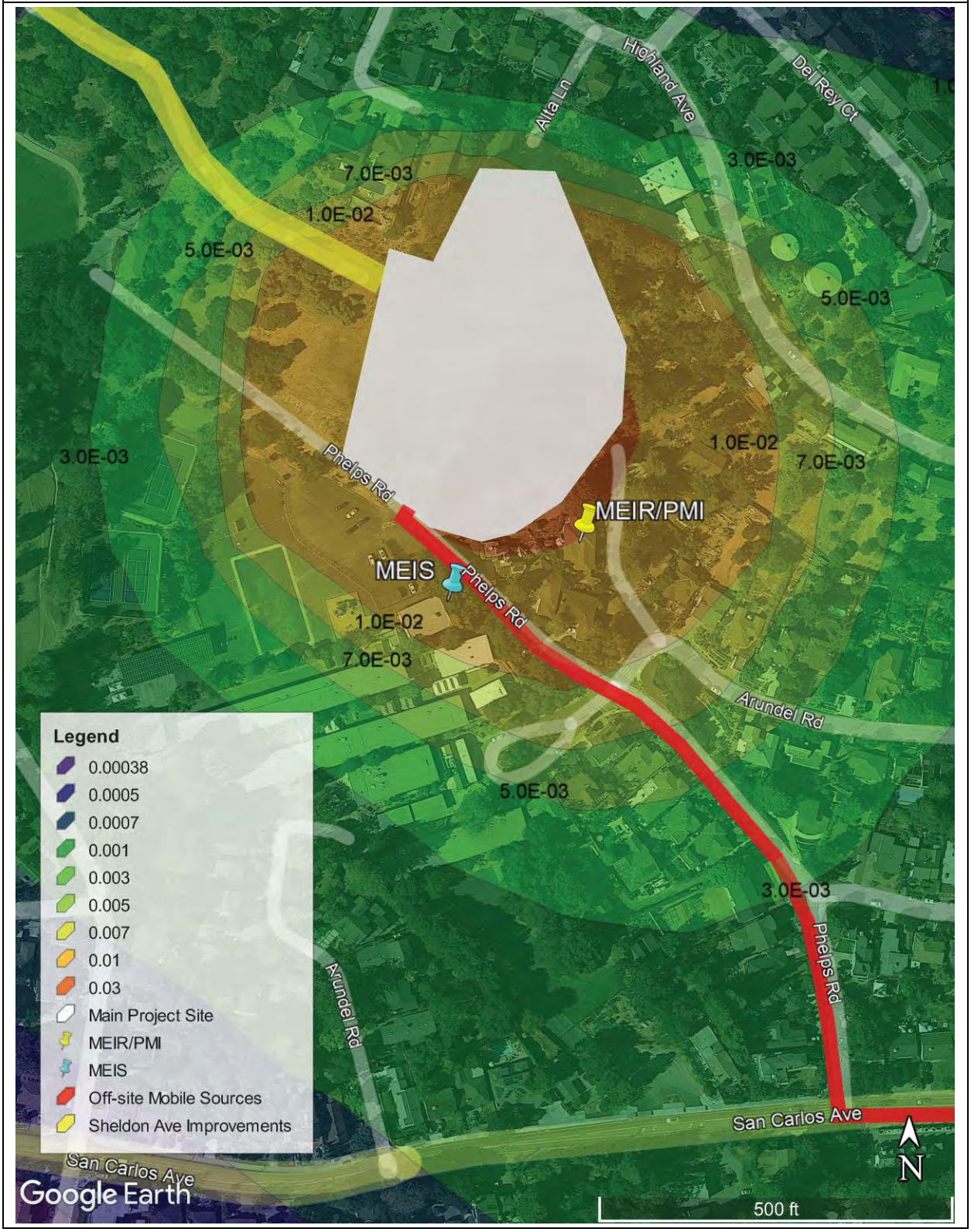
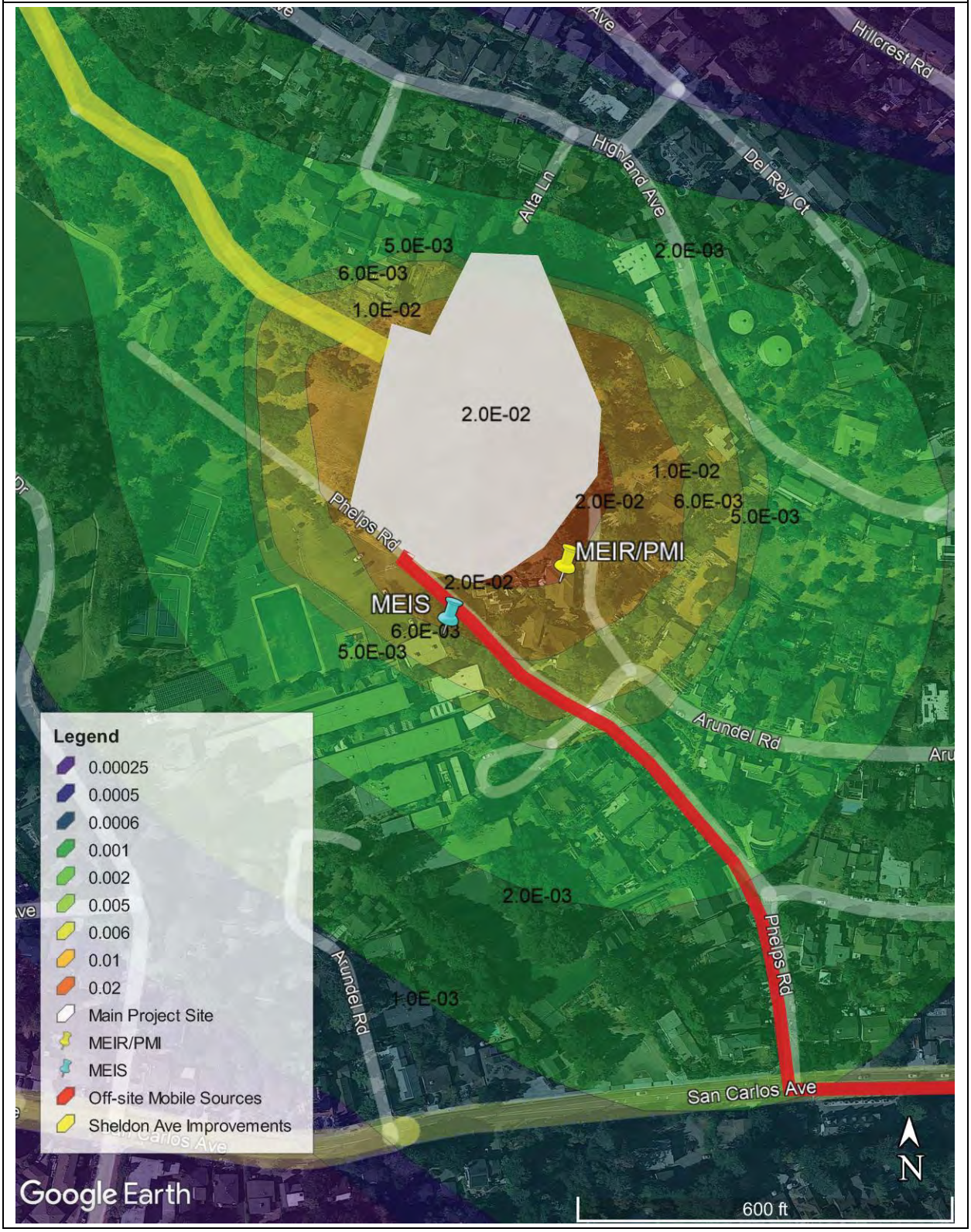


Figure A2-7: Construction Health Risk Assessment – Mitigated Year 2 (µg/m^3)



CONCLUSION

As described in this memo, the proposed project would not exceed the applicable BAAQMD-recommended CEQA thresholds of significance after complying with the Recommended Mitigation Measure that would require all mobile construction equipment over 50 hp are Tier IV.

REFERENCES

The following references were used to prepare this memorandum:

Bay Area Air Quality Management District (BAAQMD) 2017. California Environmental Quality Air Quality Guidelines. 2017. https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en

_____. 2018. Personal communication. Phone call. Alison Kirk, Senior Environmental Planner, BAAQMD, with Chris Dugan, MIG. June 21, 2018.

_____2022. Public Records Request 2022-08-0344. Meteorological data for San Carlos Airport.

Office of Environmental Health Hazard Assessment (OEHHA) 2015. *Air Toxics Hot Spots Program Guidance Manual*. Sacramento, CA. February 2015.

Sacramento Metro Air Quality Management District (SMAQMD) 2013. “CEQA Guide”. Chapter 3. Dispersion Modeling of Construction-Generated PM_{10} Emissions. Revised July 2013. Web. http://www.airquality.org/LandUseTransportation/Documents/Ch3PMDispersionModelingGuidanceFINAL7-2013.pdf

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   LOCATION A0000044     AREA     564233.127 4151003.827 0.0
   LOCATION A0000045     AREA     564253.811 4150979.466 0.0
   LOCATION A0000046     AREA     564274.274 4150956.512 0.0
   LOCATION A0000047     AREA     564279.638 4150947.440 0.0
   LOCATION A0000048     AREA     564287.484 4150930.788 0.0
   LOCATION A0000049     AREA     564292.126 4150911.199 0.0
   LOCATION A0000050     AREA     564292.621 4150908.608 0.0
   LOCATION A0000051     AREA     564296.457 4150887.409 0.0
   LOCATION A0000052     AREA     564300.324 4150857.478 0.0
   LOCATION A0000053     AREA     564304.826 4150845.113 0.0
   LOCATION A0000054     AREA     564348.803 4150845.926 0.0
   LOCATION A0000055     AREA     564392.780 4150846.739 0.0
   LOCATION A0000056     AREA     564437.188 4150847.591 0.0
** End of LINE AREA Source ID = ARLN03
** Source Parameters **
   SRCPARAM PAREA01      3.8872E-07     5.000        13
   AREAVERT PAREA01      564088.794 4151129.307 564127.040
4151099.217
   AREAVERT PAREA01      564148.413 4151093.311 564161.349
4151095.842
   AREAVERT PAREA01      564180.191 4151108.216 564186.622
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4151115.315
   AREAVERT PAREA01      564191.159 4151121.433 564208.032
4151145.337
   AREAVERT PAREA01      564210.001 4151177.677 564178.785
4151251.076
   AREAVERT PAREA01      564146.726 4151251.920 564127.322
4151212.549
   AREAVERT PAREA01      564108.199 4151216.767
   SRCPARAM PAREA02      2.1507E-07     5.000        17
   AREAVERT PAREA02      564114.185 4151199.280 564135.471
4151210.878
   AREAVERT PAREA02      564140.169 4151235.834 564155.143
4151235.394
   AREAVERT PAREA02      564190.816 4151202.069 564200.799
4151166.837
   AREAVERT PAREA02      564198.890 4151132.485 564183.151
4151111.354
   AREAVERT PAREA02      564171.407 4151102.399 564162.745
4151097.114
   AREAVERT PAREA02      564125.163 4151111.354 564132.797
4151128.677
   AREAVERT PAREA02      564172.434 4151126.622 564183.591
4151145.119
   AREAVERT PAREA02      564163.185 4151152.753 564131.035
4151147.321
   AREAVERT PAREA02      564098.444 4151156.864
** LINE AREA Source ID = ARLN01
   SRCPARAM A0000001     7.9642E-08     5.000    66.742
12.192  -152.546
   SRCPARAM A0000002     7.9642E-08     5.000    27.611
12.192  -135.971
   SRCPARAM A0000003     7.9642E-08     5.000    45.061
12.192  -119.954
   SRCPARAM A0000004     7.9642E-08     5.000    31.085
12.192  -149.324
   SRCPARAM A0000005     7.9642E-08     5.000    25.777
12.192  -141.746
   SRCPARAM A0000006     7.9642E-08     5.000    57.132
12.192  -118.486
   SRCPARAM A0000007     7.9642E-08     5.000    52.804
12.192  -113.920
   SRCPARAM A0000008     7.9642E-08     5.000    15.335
12.192  -156.038
   SRCPARAM A0000009     7.9642E-08     5.000    17.026    12.192
169.461
   SRCPARAM A0000010     7.9642E-08     5.000    21.282    12.192
140.194
   SRCPARAM A0000011     7.9642E-08     5.000    14.327    12.192
128.189
   SRCPARAM A0000012     7.9642E-08     5.000    32.439    12.192
120.548
   SRCPARAM A0000013     7.9642E-08     5.000    10.809    12.192
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126.384
   SRCPARAM A0000014     7.9642E-08     5.000    11.477    12.192
151.390
   SRCPARAM A0000015     7.9642E-08     5.000    45.427    12.192
170.012
   SRCPARAM A0000016     7.9642E-08     5.000    19.903    12.192
148.922
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   SRCPARAM PAREA03      4.0452E-07     5.000        17
   AREAVERT PAREA03      564114.180 4151199.280 564135.470
4151210.880
   AREAVERT PAREA03      564140.170 4151235.830 564155.140
4151235.390
   AREAVERT PAREA03      564190.820 4151202.070 564200.800
4151166.840
   AREAVERT PAREA03      564198.890 4151132.480 564183.150
4151111.350
   AREAVERT PAREA03      564171.410 4151102.400 564162.750
4151097.110
   AREAVERT PAREA03      564125.160 4151111.350 564132.800
4151128.680
   AREAVERT PAREA03      564172.430 4151126.620 564183.590
4151145.120
   AREAVERT PAREA03      564163.190 4151152.750 564131.040
4151147.320
   AREAVERT PAREA03      564098.440 4151156.860
** LINE AREA Source ID = ARLN02
   SRCPARAM A0000017     3.8589E-10     4.150     5.037     6.096
120.964
   SRCPARAM A0000018     3.8589E-10     4.150    18.099     6.096
40.619
   SRCPARAM A0000019     3.8589E-10     4.150    24.859     6.096
41.132
   SRCPARAM A0000020     3.8589E-10     4.150    36.508     6.096
46.560
   SRCPARAM A0000021     3.8589E-10     4.150    24.283     6.096
32.125
   SRCPARAM A0000022     3.8589E-10     4.150    25.628     6.096
27.498
   SRCPARAM A0000023     3.8589E-10     4.150    26.308     6.096
41.532
   SRCPARAM A0000024     3.8589E-10     4.150    31.888     6.096
49.654
   SRCPARAM A0000025     3.8589E-10     4.150    31.339     6.096
48.403
   SRCPARAM A0000026     3.8589E-10     4.150    10.828     6.096
59.470
   SRCPARAM A0000027     3.8589E-10     4.150    19.027     6.096
64.974
   SRCPARAM A0000028     3.8589E-10     4.150    20.266     6.096
76.661
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   SRCPARAM A0000029     3.8589E-10     4.150     2.667     6.096
79.284
   SRCPARAM A0000030     3.8589E-10     4.150    21.692     6.096
79.743
   SRCPARAM A0000031     3.8589E-10     4.150    30.133     6.096
82.635
   SRCPARAM A0000032     3.8589E-10     4.150     9.861     6.096
81.703
   SRCPARAM A0000033     3.8589E-10     4.150    43.987
6.096    -1.059
   SRCPARAM A0000034     3.8589E-10     4.150    43.987
6.096    -1.059
   SRCPARAM A0000035     3.8589E-10     4.150    43.987
6.096    -1.059
   SRCPARAM A0000036     3.8589E-10     4.150    43.989
6.096    -9.218
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** LINE AREA Source ID = ARLN03
   SRCPARAM A0000037     2.2005E-11     4.150     5.037     6.096
120.944
   SRCPARAM A0000038     2.2005E-11     4.150    18.105     6.096
40.632
   SRCPARAM A0000039     2.2005E-11     4.150    24.855     6.096
41.134
   SRCPARAM A0000040     2.2005E-11     4.150    36.507     6.096
46.565
   SRCPARAM A0000041     2.2005E-11     4.150    24.286     6.096
32.113
   SRCPARAM A0000042     2.2005E-11     4.150    25.624     6.096
27.495
   SRCPARAM A0000043     2.2005E-11     4.150    26.311     6.096
41.518
   SRCPARAM A0000044     2.2005E-11     4.150    31.890     6.096
49.668
   SRCPARAM A0000045     2.2005E-11     4.150    31.337     6.096
48.389
   SRCPARAM A0000046     2.2005E-11     4.150    10.830     6.096
59.481
   SRCPARAM A0000047     2.2005E-11     4.150    19.027     6.096
64.970
   SRCPARAM A0000048     2.2005E-11     4.150    20.265     6.096
76.677
   SRCPARAM A0000049     2.2005E-11     4.150     2.667     6.096
79.196
   SRCPARAM A0000050     2.2005E-11     4.150    21.696     6.096
79.752
   SRCPARAM A0000051     2.2005E-11     4.150    30.128     6.096
82.639
   SRCPARAM A0000052     2.2005E-11     4.150     9.864     6.096
81.665
   SRCPARAM A0000053     2.2005E-11     4.150    43.984
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6.096    -1.060
   SRCPARAM A0000054     2.2005E-11     4.150    43.984
6.096    -1.060
   SRCPARAM A0000055     2.2005E-11     4.150    43.984
6.096    -1.060
   SRCPARAM A0000056     2.2005E-11     4.150    43.989
6.096    -9.222
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   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"
** WeekDays:
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA01      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA01      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA01      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA02      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA02      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA02      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000003     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000004     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000005     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000006     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000007     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000008     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000009     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000010     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000011     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000012     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000013     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000014     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000015     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
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   EMISFACT A0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA03      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA03      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA03      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000017     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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EMISFACT A0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000029     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000030     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000030     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000031     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT A0000031     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000032     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000033     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000034     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000035     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000036     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000019     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000020     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000021     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000022     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000023     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000024     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000025     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000026     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000027     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000028     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000029     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000029     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000030     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000031     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000032     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000033     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000034     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000035     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000036     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000017     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000018     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000029     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000030     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000031     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000032     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000033     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000034     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000035     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000036     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000037     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000038     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000039     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000040     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000041     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000042     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000043     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000044     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000045     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000046     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000047     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000048     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000049     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000050     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000050     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000051     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000051     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000052     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000052     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000053     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000054     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000054     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000055     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000055     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000056     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000037     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000038     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000039     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000040     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000041     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000042     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000043     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000043     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000044     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000044     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000045     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000045     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000046     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000046     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000047     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000047     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000048     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
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   EMISFACT A0000048     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000049     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000049     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000050     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000050     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000051     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000051     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000052     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000052     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000053     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000053     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000054     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000054     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000055     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000056     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000037     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000038     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000039     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000040     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000041     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000041     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000042     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000042     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000043     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000044     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000045     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000046     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000047     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000048     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000049     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000051     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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EMISFACT A0000052     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000052     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000053     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000055     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000056     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP Y1_ALL   PAREA01 PAREA02 A0000017 A0000018 A0000019
A0000020
   SRCGROUP Y1_ALL   A0000021 A0000022 A0000023 A0000024 A0000025
A0000026
   SRCGROUP Y1_ALL   A0000027 A0000028 A0000029 A0000030 A0000031
A0000032
   SRCGROUP Y1_ALL   A0000033 A0000034 A0000035 A0000036
   SRCGROUP Y1_ON    PAREA01 PAREA02
   SRCGROUP Y1_OFF   A0000017 A0000018 A0000019 A0000020 A0000021
A0000022
   SRCGROUP Y1_OFF   A0000023 A0000024 A0000025 A0000026 A0000027
A0000028
   SRCGROUP Y1_OFF   A0000029 A0000030 A0000031 A0000032 A0000033
A0000034
   SRCGROUP Y1_OFF   A0000035 A0000036
   SRCGROUP Y2_ALL   A0000001 A0000002 A0000003 A0000004 A0000005
A0000006
   SRCGROUP Y2_ALL   A0000007 A0000008 A0000009 A0000010 A0000011
A0000012
   SRCGROUP Y2_ALL   A0000013 A0000014 A0000015 A0000016 PAREA03
A0000037
   SRCGROUP Y2_ALL   A0000038 A0000039 A0000040 A0000041 A0000042
A0000043
   SRCGROUP Y2_ALL   A0000044 A0000045 A0000046 A0000047 A0000048
A0000049
   SRCGROUP Y2_ALL   A0000050 A0000051 A0000052 A0000053 A0000054
A0000055
   SRCGROUP Y2_ALL   A0000056
   SRCGROUP Y2_ON-B  PAREA03
   SRCGROUP Y2_ON-R  A0000001 A0000002 A0000003 A0000004 A0000005
A0000006
   SRCGROUP Y2_ON-R  A0000007 A0000008 A0000009 A0000010 A0000011
A0000012
   SRCGROUP Y2_ON-R  A0000013 A0000014 A0000015 A0000016
   SRCGROUP Y2_ON-A  A0000001 A0000002 A0000003 A0000004 A0000005
A0000006
   SRCGROUP Y2_ON-A  A0000007 A0000008 A0000009 A0000010 A0000011
A0000012
   SRCGROUP Y2_ON-A  A0000013 A0000014 A0000015 A0000016 PAREA03
   SRCGROUP Y2_OFF   A0000037 A0000038 A0000039 A0000040 A0000041
A0000042
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   SRCGROUP Y2_OFF   A0000043 A0000044 A0000045 A0000046 A0000047
A0000048
   SRCGROUP Y2_OFF   A0000049 A0000050 A0000051 A0000052 A0000053
A0000054
   SRCGROUP Y2_OFF   A0000055 A0000056
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    564114.01   4151261.20    1.50
   DISCCART    564135.61   4151266.04    1.50
   DISCCART    564119.54   4151293.69    1.50
   DISCCART    564130.77   4151312.01    1.50
   DISCCART    564163.09   4151305.62    1.50
   DISCCART    564177.44   4151299.74    1.50
   DISCCART    564196.97   4151291.79    1.50
   DISCCART    564210.10   4151280.21    1.50
   DISCCART    564220.30   4151264.14    1.50
   DISCCART    564227.90   4151247.38    1.50
   DISCCART    564238.45   4151230.27    1.50
   DISCCART    564240.80   4151212.56    1.50
   DISCCART    564248.22   4151198.20    1.50
   DISCCART    564256.35   4151175.24    1.50
   DISCCART    564269.75   4151162.08    1.50
   DISCCART    564286.49   4151151.08    1.50
   DISCCART    564308.10   4151135.11    1.50
   DISCCART    564329.77   4151126.39    1.50
   DISCCART    564243.38   4151128.82    1.50
   DISCCART    564191.23   4151093.66    1.50
   DISCCART    564176.16   4151074.52    1.50
   DISCCART    564232.45   4151110.30    1.50
   DISCCART    564235.20   4151074.64    1.50
   DISCCART    564247.20   4151064.67    1.50
   DISCCART    564261.03   4151054.91    1.50
   DISCCART    564279.33   4151048.00    1.50
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   DISCCART    564077.80   4151271.65    1.50
   DISCCART    564075.89   4151298.68    1.50
   DISCCART    564092.20   4151320.13    1.50
   DISCCART    564079.00   4151329.27    1.50
   DISCCART    564064.02   4151340.14    1.50
   DISCCART    564053.40   4151343.64    1.50
   DISCCART    564038.54   4151353.00    1.50
   DISCCART    564026.30   4151362.62    1.50
   DISCCART    564014.58   4151371.30    1.50
   DISCCART    564004.15   4151384.96    1.50
   DISCCART    563986.52   4151397.01    1.50
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   DISCCART    563975.05   4151409.36    1.50
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   DISCCART    563747.29   4151364.63    1.50
   DISCCART    563732.55   4151348.64    1.50
   DISCCART    564252.63   4151299.36    1.50
   DISCCART    564270.08   4151278.80    1.50
   DISCCART    564280.78   4151263.04    1.50
   DISCCART    564299.64   4151254.31    1.50
   DISCCART    564320.76   4151241.36    1.50
   DISCCART    564338.49   4151199.69    1.50
   DISCCART    564223.05   4151086.47    1.50
   DISCCART    564223.05   4151100.23    1.50
   DISCCART    564207.53   4151007.19    1.50
   DISCCART    564220.50   4150997.85    1.50
   DISCCART    564231.22   4150986.27    1.50
   DISCCART    564270.64   4151004.25    1.50
   DISCCART    564293.29   4151001.31    1.50
   DISCCART    564316.46   4150997.68    1.50
   DISCCART    564190.93   4150987.82    1.50
   DISCCART    564158.55   4151084.80    1.50
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian
Grid"
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   DISCCART    563734.00   4150687.00    1.50
   DISCCART    563784.00   4150687.00    1.50
   DISCCART    563834.00   4150687.00    1.50
   DISCCART    563884.00   4150687.00    1.50
   DISCCART    563934.00   4150687.00    1.50
   DISCCART    563984.00   4150687.00    1.50
   DISCCART    564034.00   4150687.00    1.50
   DISCCART    564084.00   4150687.00    1.50
   DISCCART    564134.00   4150687.00    1.50
   DISCCART    564184.00   4150687.00    1.50
   DISCCART    564234.00   4150687.00    1.50
   DISCCART    564284.00   4150687.00    1.50
   DISCCART    564334.00   4150687.00    1.50
   DISCCART    564384.00   4150687.00    1.50
   DISCCART    564434.00   4150687.00    1.50
   DISCCART    564484.00   4150687.00    1.50
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   DISCCART    564584.00   4150687.00    1.50
   DISCCART    564634.00   4150687.00    1.50
   DISCCART    564684.00   4150687.00    1.50
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   DISCCART    563734.00   4150737.00    1.50
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   DISCCART    563834.00   4150737.00    1.50
   DISCCART    563884.00   4150737.00    1.50
   DISCCART    563934.00   4150737.00    1.50
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   DISCCART    564034.00   4150737.00    1.50
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DISCCART	564484.00	4150837.00	1.50
DISCCART	564534.00	4150837.00	1.50

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DISCCART    564584.00   4150837.00    1.50
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DISCCART    564234.00   4151187.00    1.50
DISCCART    564284.00   4151187.00    1.50
DISCCART    564334.00   4151187.00    1.50
DISCCART    564384.00   4151187.00    1.50
DISCCART    564434.00   4151187.00    1.50
DISCCART    564484.00   4151187.00    1.50
DISCCART    564534.00   4151187.00    1.50
DISCCART    564584.00   4151187.00    1.50
DISCCART    564634.00   4151187.00    1.50
DISCCART    564684.00   4151187.00    1.50
DISCCART    563684.00   4151237.00    1.50
DISCCART    563734.00   4151237.00    1.50
DISCCART    563784.00   4151237.00    1.50
DISCCART    563834.00   4151237.00    1.50
DISCCART    563884.00   4151237.00    1.50
DISCCART    563934.00   4151237.00    1.50
DISCCART    563984.00   4151237.00    1.50
DISCCART    564034.00   4151237.00    1.50
DISCCART    564084.00   4151237.00    1.50
DISCCART    564134.00   4151237.00    1.50
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DISCCART    564234.00   4151237.00    1.50
DISCCART    564284.00   4151237.00    1.50
DISCCART    564334.00   4151237.00    1.50
DISCCART    564384.00   4151237.00    1.50
DISCCART    564434.00   4151237.00    1.50
DISCCART    564484.00   4151237.00    1.50
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DISCCART    564584.00   4151237.00    1.50
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DISCCART    564684.00   4151237.00    1.50
DISCCART    563684.00   4151287.00    1.50
DISCCART    563734.00   4151287.00    1.50
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DISCCART    563884.00   4151337.00    1.50
DISCCART    563934.00   4151337.00    1.50
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DISCCART    564234.00   4151337.00    1.50
DISCCART    564284.00   4151337.00    1.50
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DISCCART    564384.00   4151337.00    1.50
DISCCART    564434.00   4151337.00    1.50
DISCCART    564484.00   4151337.00    1.50
DISCCART    564534.00   4151337.00    1.50
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DISCCART    564634.00   4151337.00    1.50
DISCCART    564684.00   4151337.00    1.50
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DISCCART    563734.00   4151387.00    1.50
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DISCCART    563834.00   4151387.00    1.50
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DISCCART    564034.00   4151387.00    1.50
DISCCART    564084.00   4151387.00    1.50
DISCCART    564134.00   4151387.00    1.50
DISCCART    564184.00   4151387.00    1.50
DISCCART    564234.00   4151387.00    1.50
DISCCART    564284.00   4151387.00    1.50
DISCCART    564334.00   4151387.00    1.50
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DISCCART    564634.00   4151387.00    1.50
DISCCART    564684.00   4151387.00    1.50
DISCCART    563684.00   4151437.00    1.50
DISCCART    563734.00   4151437.00    1.50
DISCCART    563784.00   4151437.00    1.50
DISCCART    563834.00   4151437.00    1.50
DISCCART    563884.00   4151437.00    1.50
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DISCCART    564034.00   4151437.00    1.50
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DISCCART    564134.00   4151437.00    1.50
DISCCART    564184.00   4151437.00    1.50
DISCCART    564234.00   4151437.00    1.50
DISCCART    564284.00   4151437.00    1.50
DISCCART    564334.00   4151437.00    1.50
DISCCART    564384.00   4151437.00    1.50
DISCCART    564434.00   4151437.00    1.50
DISCCART    564484.00   4151437.00    1.50
DISCCART    564534.00   4151437.00    1.50
DISCCART    564584.00   4151437.00    1.50
DISCCART    564634.00   4151437.00    1.50
DISCCART    564684.00   4151437.00    1.50
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DISCCART    563734.00   4151487.00    1.50
DISCCART    563784.00   4151487.00    1.50
DISCCART    563834.00   4151487.00    1.50
DISCCART    563884.00   4151487.00    1.50
DISCCART    563934.00   4151487.00    1.50
DISCCART    563984.00   4151487.00    1.50
DISCCART    564034.00   4151487.00    1.50
DISCCART    564084.00   4151487.00    1.50
DISCCART    564134.00   4151487.00    1.50
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DISCCART	564184.00	4151487.00	1.50
DISCCART	564234.00	4151487.00	1.50
DISCCART	564284.00	4151487.00	1.50
DISCCART	564334.00	4151487.00	1.50
DISCCART	564384.00	4151487.00	1.50
DISCCART	564434.00	4151487.00	1.50
DISCCART	564484.00	4151487.00	1.50
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DISCCART	564384.00	4151587.00	1.50
DISCCART	564434.00	4151587.00	1.50
DISCCART	564484.00	4151587.00	1.50
DISCCART	564534.00	4151587.00	1.50
DISCCART	564584.00	4151587.00	1.50
DISCCART	564634.00	4151587.00	1.50

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   DISCCART    564684.00   4151587.00    1.50
   DISCCART    563684.00   4151637.00    1.50
   DISCCART    563734.00   4151637.00    1.50
   DISCCART    563784.00   4151637.00    1.50
   DISCCART    563834.00   4151637.00    1.50
   DISCCART    563884.00   4151637.00    1.50
   DISCCART    563934.00   4151637.00    1.50
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   DISCCART    564384.00   4151637.00    1.50
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   DISCCART    564634.00   4151637.00    1.50
   DISCCART    564684.00   4151637.00    1.50
   DISCCART    563684.00   4151687.00    1.50
   DISCCART    563734.00   4151687.00    1.50
   DISCCART    563784.00   4151687.00    1.50
   DISCCART    563834.00   4151687.00    1.50
   DISCCART    563884.00   4151687.00    1.50
   DISCCART    563934.00   4151687.00    1.50
   DISCCART    563984.00   4151687.00    1.50
   DISCCART    564034.00   4151687.00    1.50
   DISCCART    564084.00   4151687.00    1.50
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   DISCCART    564184.00   4151687.00    1.50
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   DISCCART    564484.00   4151687.00    1.50
   DISCCART    564534.00   4151687.00    1.50
   DISCCART    564584.00   4151687.00    1.50
   DISCCART    564634.00   4151687.00    1.50
   DISCCART    564684.00   4151687.00    1.50
** DESCRREC "UCART2" "Receptors generated from Uniform Cartesian
Grid"
   DISCCART    564024.00   4150977.00    1.50
   DISCCART    564034.00   4150977.00    1.50
   DISCCART    564044.00   4150977.00    1.50
   DISCCART    564054.00   4150977.00    1.50
   DISCCART    564064.00   4150977.00    1.50
   DISCCART    564074.00   4150977.00    1.50
   DISCCART    564084.00   4150977.00    1.50
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DISCCART    564094.00   4150977.00    1.50
DISCCART    564104.00   4150977.00    1.50
DISCCART    564114.00   4150977.00    1.50
DISCCART    564124.00   4150977.00    1.50
DISCCART    564134.00   4150977.00    1.50
DISCCART    564144.00   4150977.00    1.50
DISCCART    564024.00   4150987.00    1.50
DISCCART    564034.00   4150987.00    1.50
DISCCART    564044.00   4150987.00    1.50
DISCCART    564054.00   4150987.00    1.50
DISCCART    564064.00   4150987.00    1.50
DISCCART    564074.00   4150987.00    1.50
DISCCART    564084.00   4150987.00    1.50
DISCCART    564094.00   4150987.00    1.50
DISCCART    564104.00   4150987.00    1.50
DISCCART    564114.00   4150987.00    1.50
DISCCART    564124.00   4150987.00    1.50
DISCCART    564134.00   4150987.00    1.50
DISCCART    564144.00   4150987.00    1.50
DISCCART    564024.00   4150997.00    1.50
DISCCART    564034.00   4150997.00    1.50
DISCCART    564044.00   4150997.00    1.50
DISCCART    564054.00   4150997.00    1.50
DISCCART    564064.00   4150997.00    1.50
DISCCART    564074.00   4150997.00    1.50
DISCCART    564084.00   4150997.00    1.50
DISCCART    564094.00   4150997.00    1.50
DISCCART    564104.00   4150997.00    1.50
DISCCART    564114.00   4150997.00    1.50
DISCCART    564124.00   4150997.00    1.50
DISCCART    564134.00   4150997.00    1.50
DISCCART    564144.00   4150997.00    1.50
DISCCART    564024.00   4151007.00    1.50
DISCCART    564034.00   4151007.00    1.50
DISCCART    564044.00   4151007.00    1.50
DISCCART    564054.00   4151007.00    1.50
DISCCART    564064.00   4151007.00    1.50
DISCCART    564074.00   4151007.00    1.50
DISCCART    564084.00   4151007.00    1.50
DISCCART    564094.00   4151007.00    1.50
DISCCART    564104.00   4151007.00    1.50
DISCCART    564114.00   4151007.00    1.50
DISCCART    564124.00   4151007.00    1.50
DISCCART    564134.00   4151007.00    1.50
DISCCART    564144.00   4151007.00    1.50
DISCCART    564024.00   4151017.00    1.50
DISCCART    564034.00   4151017.00    1.50
DISCCART    564044.00   4151017.00    1.50
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DISCCART    564064.00   4151017.00    1.50
DISCCART    564074.00   4151017.00    1.50
DISCCART    564084.00   4151017.00    1.50
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DISCCART    564094.00   4151017.00    1.50
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DISCCART    564124.00   4151017.00    1.50
DISCCART    564134.00   4151017.00    1.50
DISCCART    564144.00   4151017.00    1.50
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DISCCART    564064.00   4151027.00    1.50
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DISCCART    564054.00   4151037.00    1.50
DISCCART    564064.00   4151037.00    1.50
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DISCCART    564084.00   4151037.00    1.50
DISCCART    564094.00   4151037.00    1.50
DISCCART    564104.00   4151037.00    1.50
DISCCART    564114.00   4151037.00    1.50
DISCCART    564124.00   4151037.00    1.50
DISCCART    564134.00   4151037.00    1.50
DISCCART    564144.00   4151037.00    1.50
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DISCCART    564124.00   4151047.00    1.50
DISCCART    564134.00   4151047.00    1.50
DISCCART    564144.00   4151047.00    1.50
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DISCCART    564044.00   4151057.00    1.50
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DISCCART    564074.00   4151057.00    1.50
DISCCART    564084.00   4151057.00    1.50
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   DISCCART    564104.00   4151057.00    1.50
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   DISCCART    564134.00   4151057.00    1.50
   DISCCART    564144.00   4151057.00    1.50
   DISCCART    564024.00   4151067.00    1.50
   DISCCART    564034.00   4151067.00    1.50
   DISCCART    564044.00   4151067.00    1.50
   DISCCART    564054.00   4151067.00    1.50
   DISCCART    564064.00   4151067.00    1.50
   DISCCART    564074.00   4151067.00    1.50
   DISCCART    564084.00   4151067.00    1.50
   DISCCART    564094.00   4151067.00    1.50
   DISCCART    564104.00   4151067.00    1.50
   DISCCART    564114.00   4151067.00    1.50
   DISCCART    564124.00   4151067.00    1.50
   DISCCART    564134.00   4151067.00    1.50
   DISCCART    564144.00   4151067.00    1.50
** Discrete Cartesian Plant Boundary - Primary Receptors
** Plant Boundary Name PLBN1
** DESCRREC "FENCEPRI" "Cartesian plant boundary Primary
Receptors"
   DISCCART    564107.97   4151217.98    1.50
   DISCCART    564126.88   4151212.46    1.50
   DISCCART    564146.59   4151252.73    1.50
   DISCCART    564179.25   4151251.60    1.50
   DISCCART    564210.51   4151177.54    1.50
   DISCCART    564208.82   4151145.16    1.50
   DISCCART    564183.19   4151110.24    1.50
   DISCCART    564162.92   4151096.45    1.50
   DISCCART    564148.56   4151092.79    1.50
   DISCCART    564126.03   4151098.98    1.50
   DISCCART    564088.27   4151128.81    1.50
RE FINISHED
**
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** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "C:\Users\sjremote\Desktop\308-Phelps\San_Carlos_
2013-2017\SAN_CARLOS_2013-2017 SFC.SFC"
   PROFFILE "C:\Users\sjremote\Desktop\308-Phelps\San_Carlos_
2013-2017\SAN_CARLOS_2013-2017 PFL.PFL"
   SURFDATA 23254 2013 San_Carlos_Airport 566119.00 4152498.00
   UAIRDATA 23230 2013 OAKLAND/WSO_AP
   SITEDATA 6901 2013
   PROFBASE 1.0 METERS
ME FINISHED
**
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** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD Y1_ALL 308-PHELPS_CONSTRUCTION-HRA_FLAT_
20221103.AD\PE00G001.PLT 31
   PLOTFILE PERIOD Y1_ON 308-PHELPS_CONSTRUCTION-HRA_FLAT_
20221103.AD\PE00G002.PLT 32
   PLOTFILE PERIOD Y1_OFF 308-PHELPS_CONSTRUCTION-HRA_FLAT_
20221103.AD\PE00G003.PLT 33
   PLOTFILE PERIOD Y2_ALL 308-PHELPS_CONSTRUCTION-HRA_FLAT_
20221103.AD\PE00G004.PLT 34
   PLOTFILE PERIOD Y2_ON-B 308-PHELPS_CONSTRUCTION-HRA_FLAT_
20221103.AD\PE00G005.PLT 35
   PLOTFILE PERIOD Y2_ON-R 308-PHELPS_CONSTRUCTION-HRA_FLAT_
20221103.AD\PE00G006.PLT 36
   PLOTFILE PERIOD Y2_ON-A 308-PHELPS_CONSTRUCTION-HRA_FLAT_
20221103.AD\PE00G007.PLT 37
   PLOTFILE PERIOD Y2_OFF 308-PHELPS_CONSTRUCTION-HRA_FLAT_
20221103.AD\PE00G008.PLT 38
   SUMMFILE 308-Phelps_Construction-HRA_FLAT_20221103.sum
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 MX W403    1702       PFLCNV: Turbulence data is being used w/o
ADJ_U* option       SigA Data

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

```
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\308-
Phelps_Construction-HRA_20221102\308-Phelps_Constructio ***
11/03/22
 *** AERMET - VERSION  18081 ***   ***
***        10:07:26

PAGE   1
 *** MODELOPTs:    NonDFAULT  CONC  FLAT  FLGPOL  URBAN  SigA
Data

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

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

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

 **Model Uses URBAN Dispersion Algorithm for the SBL for    59
Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   4709220.0 ;  Urban Roughness Length =
1.000 m

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

 **Other Options Specified:
         TEMP_Sub - Meteorological data includes TEMP
substitutions

 **Model Accepts FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_2.5

 **Model Calculates PERIOD Averages Only

 **This Run Includes:     59 Source(s);       8 Source Group(s);
and     636 Receptor(s)

               with:      0 POINT(s), including
```

```
                              0 POINTCAP(s) and      0 POINTHOR(s)
                  and:        0 VOLUME source(s)
                  and:       59 AREA type source(s)
                  and:        0 LINE source(s)
                  and:        0 RLINE/RLINEXT source(s)
                  and:        0 OPENPIT source(s)
                  and:        0 BUOYANT LINE source(s) with a total
of     0 line(s)


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

 **The AERMET Input Meteorological Data Version Date:  18081

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:
c for Calm Hours

m for Missing Hours

b for Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =
1.00 ;  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 =      3.8 MB of
RAM.

 **Input Runstream File:          aermod.inp
 **Output Print File:             aermod.out

 **Detailed Error/Message File:   308-Phelps_Construction-
HRA_FLAT_20221103.err
 **File for Summary of Results:   308-Phelps_Construction-
HRA_FLAT_20221103.sum
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** 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	EMISSION RATE SCALAR VARY BY
A0000001	0	0.79642E-07	564107.8	4151209.8	1.0	5.00	66.74	12.19	-152.55	0.00	YES	HRDOW
A0000002	0	0.79642E-07	564050.0	4151239.5	1.0	5.00	27.61	12.19	-135.97	0.00	YES	HRDOW
A0000003	0	0.79642E-07	564031.2	4151257.4	1.0	5.00	45.06	12.19	-119.95	0.00	YES	HRDOW
A0000004	0	0.79642E-07	564006.5	4151298.6	1.0	5.00	31.08	12.19	-149.32	0.00	YES	HRDOW
A0000005	0	0.79642E-07	563980.5	4151314.0	1.0	5.00	25.78	12.19	-141.75	0.00	YES	HRDOW
A0000006	0	0.79642E-07	563961.8	4151328.1	1.0	5.00	57.13	12.19	-118.49	0.00	YES	HRDOW
A0000007	0	0.79642E-07	563934.8	4151377.9	1.0	5.00	52.80	12.19	-113.92	0.00	YES	HRDOW
A0000008	0	0.79642E-07	563910.3	4151429.2	1.0	5.00	15.34	12.19	-156.04	0.00	YES	HRDOW
A0000009	0	0.79642E-07	563892.7	4151435.9	1.0	5.00	17.03	12.19	169.46	0.00	YES	HRDOW
A0000010	0	0.79642E-07	563873.1	4151431.5	1.0	5.00	21.28	12.19	140.19	0.00	YES	HRDOW
A0000011	0	0.79642E-07	563855.9	4151416.9	1.0	5.00	14.33	12.19	128.19	0.00	YES	HRDOW
A0000012	0	0.79642E-07	563846.6	4151405.0	1.0	5.00	32.44	12.19	120.55	0.00	YES	HRDOW
A0000013	0	0.79642E-07	563830.4	4151377.6	1.0	5.00	10.81	12.19	126.38	0.00	YES	HRDOW

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 A0000014          0   0.79642E-07  563826.0 4151370.6     1.0
5.00     11.48     12.19    151.39     0.00     YES   HRDOW
 A0000015          0   0.79642E-07  563817.8 4151365.8     1.0
5.00     45.43     12.19    170.01     0.00     YES   HRDOW
 A0000016          0   0.79642E-07  563771.0 4151357.1     1.0
5.00     19.90     12.19    148.92     0.00     YES   HRDOW
 A0000017          0   0.38589E-09  564114.9 4151108.5     1.0
4.15      5.04      6.10    120.96     0.00     YES   HRDOW
 A0000018          0   0.38589E-09  564112.9 4151100.3     1.0
4.15     18.10      6.10     40.62     0.00     YES   HRDOW
 A0000019          0   0.38589E-09  564126.6 4151088.5     1.0
4.15     24.86      6.10     41.13     0.00     YES   HRDOW
 A0000020          0   0.38589E-09  564145.1 4151072.4     1.0
4.15     36.51      6.10     46.56     0.00     YES   HRDOW
 A0000021          0   0.38589E-09  564170.8 4151045.4     1.0
4.15     24.28      6.10     32.13     0.00     YES   HRDOW
 A0000022          0   0.38589E-09  564191.6 4151032.4     1.0
4.15     25.63      6.10     27.50     0.00     YES   HRDOW
 A0000023          0   0.38589E-09  564213.7 4151021.0     1.0
4.15     26.31      6.10     41.53     0.00     YES   HRDOW
 A0000024          0   0.38589E-09  564233.1 4151003.8     1.0
4.15     31.89      6.10     49.65     0.00     YES   HRDOW
 A0000025          0   0.38589E-09  564253.8 4150979.5     1.0
4.15     31.34      6.10     48.40     0.00     YES   HRDOW
 A0000026          0   0.38589E-09  564274.3 4150956.5     1.0
4.15     10.83      6.10     59.47     0.00     YES   HRDOW
 A0000027          0   0.38589E-09  564279.6 4150947.4     1.0
4.15     19.03      6.10     64.97     0.00     YES   HRDOW
 A0000028          0   0.38589E-09  564287.5 4150930.8     1.0
4.15     20.27      6.10     76.66     0.00     YES   HRDOW
 A0000029          0   0.38589E-09  564292.1 4150911.2     1.0
4.15      2.67      6.10     79.28     0.00     YES   HRDOW
 A0000030          0   0.38589E-09  564292.6 4150908.6     1.0
4.15     21.69      6.10     79.74     0.00     YES   HRDOW
 A0000031          0   0.38589E-09  564296.5 4150887.4     1.0
4.15     30.13      6.10     82.63     0.00     YES   HRDOW
 A0000032          0   0.38589E-09  564300.3 4150857.5     1.0
4.15      9.86      6.10     81.70     0.00     YES   HRDOW
 A0000033          0   0.38589E-09  564304.8 4150845.1     1.0
4.15     43.99      6.10     -1.06     0.00     YES   HRDOW
 A0000034          0   0.38589E-09  564348.8 4150845.9     1.0
4.15     43.99      6.10     -1.06     0.00     YES   HRDOW
 A0000035          0   0.38589E-09  564392.8 4150846.7     1.0
4.15     43.99      6.10     -1.06     0.00     YES   HRDOW
 A0000036          0   0.38589E-09  564437.2 4150847.6     1.0
4.15     43.99      6.10     -9.22     0.00     YES   HRDOW
 A0000037          0   0.22005E-10  564114.9 4151108.5     1.0
4.15      5.04      6.10    120.94     0.00     YES   HRDOW
 A0000038          0   0.22005E-10  564112.9 4151100.3     1.0
4.15     18.11      6.10     40.63     0.00     YES   HRDOW
 A0000039          0   0.22005E-10  564126.6 4151088.5     1.0
4.15     24.86      6.10     41.13     0.00     YES   HRDOW
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 A0000040          0   0.22005E-10  564145.1 4151072.4     1.0
4.15     36.51      6.10     46.57     0.00     YES   HRDOW
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** 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	EMISSION RATE SCALAR VARY BY
A0000041	0	0.22005E-10	564170.8	4151045.4	1.0	4.15	24.29	6.10	32.11	0.00	YES	HRDOW
A0000042	0	0.22005E-10	564191.6	4151032.4	1.0	4.15	25.62	6.10	27.49	0.00	YES	HRDOW
A0000043	0	0.22005E-10	564213.7	4151021.0	1.0	4.15	26.31	6.10	41.52	0.00	YES	HRDOW
A0000044	0	0.22005E-10	564233.1	4151003.8	1.0	4.15	31.89	6.10	49.67	0.00	YES	HRDOW
A0000045	0	0.22005E-10	564253.8	4150979.5	1.0	4.15	31.34	6.10	48.39	0.00	YES	HRDOW
A0000046	0	0.22005E-10	564274.3	4150956.5	1.0	4.15	10.83	6.10	59.48	0.00	YES	HRDOW
A0000047	0	0.22005E-10	564279.6	4150947.4	1.0	4.15	19.03	6.10	64.97	0.00	YES	HRDOW
A0000048	0	0.22005E-10	564287.5	4150930.8	1.0	4.15	20.26	6.10	76.68	0.00	YES	HRDOW
A0000049	0	0.22005E-10	564292.1	4150911.2	1.0	4.15	2.67	6.10	79.20	0.00	YES	HRDOW
A0000050	0	0.22005E-10	564292.6	4150908.6	1.0	4.15	21.70	6.10	79.75	0.00	YES	HRDOW
A0000051	0	0.22005E-10	564296.5	4150887.4	1.0	4.15	30.13	6.10	82.64	0.00	YES	HRDOW
A0000052	0	0.22005E-10	564300.3	4150857.5	1.0	4.15	9.86	6.10	81.66	0.00	YES	HRDOW
A0000053	0	0.22005E-10	564304.8	4150845.1	1.0	4.15	43.98	6.10	-1.06	0.00	YES	HRDOW

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 A0000054          0   0.22005E-10  564348.8 4150845.9     1.0
4.15     43.98      6.10     -1.06     0.00     YES   HRDOW
 A0000055          0   0.22005E-10  564392.8 4150846.7     1.0
4.15     43.98      6.10     -1.06     0.00     YES   HRDOW
 A0000056          0   0.22005E-10  564437.2 4150847.6     1.0
4.15     43.99      6.10     -9.22     0.00     YES   HRDOW
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** AREAPOLY SOURCE DATA ***

RELEASE SOURCE ID	NUMBER PART. CATS.	EMISSION RATE INIT. (GRAMS/SEC /METER**2)	URBAN	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	HEIGHT (METERS)	NUMBER OF VERTS.	SZ (METERS)	SOURCE SCALAR VARY BY
PAREA01	0	0.38872E-06	YES	564088.8	4151129.3	1.0	5.00	13	0.00	HRDOW
PAREA02	0	0.21507E-06	YES	564114.2	4151199.3	1.0	5.00	17	0.00	HRDOW
PAREA03	0	0.40452E-06	YES	564114.2	4151199.3	1.0	5.00	17	0.00	HRDOW

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
Y1_ALL	PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 , A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,
Y1_ON	PAREA01 , PAREA02 ,
Y1_OFF	A0000017 , A0000018 , A0000019 , A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,
Y2_ALL	A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 ,

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             PAREA03     , A0000037    , A0000038    ,
A0000039    , A0000040    , A0000041    , A0000042    ,
A0000043    ,

             A0000044    , A0000045    , A0000046    ,
A0000047    , A0000048    , A0000049    , A0000050    ,
A0000051    ,

             A0000052    , A0000053    , A0000054    ,
A0000055    , A0000056    ,

  Y2_ON-B    PAREA03     ,

  Y2_ON-R    A0000001    , A0000002    , A0000003    ,
A0000004    , A0000005    , A0000006    , A0000007    ,
A0000008    ,

             A0000009    , A0000010    , A0000011    ,
A0000012    , A0000013    , A0000014    , A0000015    ,
A0000016    ,

  Y2_ON-A    A0000001    , A0000002    , A0000003    ,
A0000004    , A0000005    , A0000006    , A0000007    ,
A0000008    ,

             A0000009    , A0000010    , A0000011    ,
A0000012    , A0000013    , A0000014    , A0000015    ,
A0000016    ,

             PAREA03     ,

  Y2_OFF     A0000037    , A0000038    , A0000039    ,
A0000040    , A0000041    , A0000042    , A0000043    ,
A0000044    ,

             A0000045    , A0000046    , A0000047    ,
A0000048    , A0000049    , A0000050    , A0000051    ,
A0000052    ,
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	A0000053 , A0000054 , A0000055 , A0000056 ,

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	4709220.	PAREA01 , PAREA02 , A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 ,
		A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 ,
		A0000015 , A0000016 , PAREA03 , A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
		A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
		A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 , A0000037 ,
		A0000038 , A0000039 , A0000040 , A0000041 , A0000042 , A0000043 , A0000044 , A0000045 ,
		A0000046 , A0000047 , A0000048 , A0000049 , A0000050 , A0000051 , A0000052 , A0000053 ,
		A0000054 , A0000055 , A0000056 ,

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA01 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA02 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000001 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000002 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000003 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000004 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000005 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000006 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000007 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000008 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000009 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000010 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000011 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000012 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000013 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000014 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000015 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000016 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA03 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000017 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000018 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000019 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000020 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000021 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000022 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000023 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000024 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000025 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000026 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000027 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000028 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000029 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000030 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000031 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000032 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000033 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000034 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000035 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000036 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000037 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000038 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000039 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000040 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000041 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000042 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000043 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000044 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000045 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000046 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000047 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000048 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000049 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000050 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000051 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000052 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000053 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000054 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000055 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000056 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564114.0, 4151261.2, 1.0, 1.0, 1.5);
(564135.6, 4151266.0, 1.0, 1.0, 1.5);
(564119.5, 4151293.7, 1.0, 1.0, 1.5);
(564130.8, 4151312.0, 1.0, 1.0, 1.5);
(564163.1, 4151305.6, 1.0, 1.0, 1.5);
(564177.4, 4151299.7, 1.0, 1.0, 1.5);
(564197.0, 4151291.8, 1.0, 1.0, 1.5);
(564210.1, 4151280.2, 1.0, 1.0, 1.5);
(564220.3, 4151264.1, 1.0, 1.0, 1.5);
(564227.9, 4151247.4, 1.0, 1.0, 1.5);
(564238.5, 4151230.3, 1.0, 1.0, 1.5);
(564240.8, 4151212.6, 1.0, 1.0, 1.5);
(564248.2, 4151198.2, 1.0, 1.0, 1.5);
(564256.4, 4151175.2, 1.0, 1.0, 1.5);
(564269.8, 4151162.1, 1.0, 1.0, 1.5);
(564286.5, 4151151.1, 1.0, 1.0, 1.5);
(564308.1, 4151135.1, 1.0, 1.0, 1.5);
(564329.8, 4151126.4, 1.0, 1.0, 1.5);
(564243.4, 4151128.8, 1.0, 1.0, 1.5);
(564191.2, 4151093.7, 1.0, 1.0, 1.5);
(564176.2, 4151074.5, 1.0, 1.0, 1.5);
(564232.5, 4151110.3, 1.0, 1.0, 1.5);
(564235.2, 4151074.6, 1.0, 1.0, 1.5);
(564247.2, 4151064.7, 1.0, 1.0, 1.5);
(564261.0, 4151054.9, 1.0, 1.0, 1.5);
(564279.3, 4151048.0, 1.0, 1.0, 1.5);
(564092.1, 4151261.5, 1.0, 1.0, 1.5);
(564077.8, 4151271.6, 1.0, 1.0, 1.5);
(564075.9, 4151298.7, 1.0, 1.0, 1.5);
(564092.2, 4151320.1, 1.0, 1.0, 1.5);
(564079.0, 4151329.3, 1.0, 1.0, 1.5);
(564064.0, 4151340.1, 1.0, 1.0, 1.5);
(564053.4, 4151343.6, 1.0, 1.0, 1.5);
(564038.5, 4151353.0, 1.0, 1.0, 1.5);
(564026.3, 4151362.6, 1.0, 1.0, 1.5);

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( 564014.6, 4151371.3,       1.0,       1.0,       1.5);
     ( 564004.2, 4151385.0,       1.0,       1.0,       1.5);
( 563986.5, 4151397.0,       1.0,       1.0,       1.5);
     ( 563975.1, 4151409.4,       1.0,       1.0,       1.5);
( 563813.0, 4151377.7,       1.0,       1.0,       1.5);
     ( 563786.5, 4151378.7,       1.0,       1.0,       1.5);
( 563747.3, 4151364.6,       1.0,       1.0,       1.5);
     ( 563732.6, 4151348.6,       1.0,       1.0,       1.5);
( 564252.6, 4151299.4,       1.0,       1.0,       1.5);
     ( 564270.1, 4151278.8,       1.0,       1.0,       1.5);
( 564280.8, 4151263.0,       1.0,       1.0,       1.5);
     ( 564299.6, 4151254.3,       1.0,       1.0,       1.5);
( 564320.8, 4151241.4,       1.0,       1.0,       1.5);
     ( 564338.5, 4151199.7,       1.0,       1.0,       1.5);
( 564223.1, 4151086.5,       1.0,       1.0,       1.5);
     ( 564223.1, 4151100.2,       1.0,       1.0,       1.5);
( 564207.5, 4151007.2,       1.0,       1.0,       1.5);
     ( 564220.5, 4150997.8,       1.0,       1.0,       1.5);
( 564231.2, 4150986.3,       1.0,       1.0,       1.5);
     ( 564270.6, 4151004.2,       1.0,       1.0,       1.5);
( 564293.3, 4151001.3,       1.0,       1.0,       1.5);
     ( 564316.5, 4150997.7,       1.0,       1.0,       1.5);
( 564190.9, 4150987.8,       1.0,       1.0,       1.5);
     ( 564158.6, 4151084.8,       1.0,       1.0,       1.5);
( 563684.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 563734.0, 4150687.0,       1.0,       1.0,       1.5);
( 563784.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 563834.0, 4150687.0,       1.0,       1.0,       1.5);
( 563884.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 563934.0, 4150687.0,       1.0,       1.0,       1.5);
( 563984.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4150687.0,       1.0,       1.0,       1.5);
( 564084.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4150687.0,       1.0,       1.0,       1.5);
( 564184.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564234.0, 4150687.0,       1.0,       1.0,       1.5);
( 564284.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564334.0, 4150687.0,       1.0,       1.0,       1.5);
( 564384.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564434.0, 4150687.0,       1.0,       1.0,       1.5);
( 564484.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564534.0, 4150687.0,       1.0,       1.0,       1.5);
( 564584.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564634.0, 4150687.0,       1.0,       1.0,       1.5);
( 564684.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 563684.0, 4150737.0,       1.0,       1.0,       1.5);
( 563734.0, 4150737.0,       1.0,       1.0,       1.5);
     ( 563784.0, 4150737.0,       1.0,       1.0,       1.5);
( 563834.0, 4150737.0,       1.0,       1.0,       1.5);
     ( 563884.0, 4150737.0,       1.0,       1.0,       1.5);
( 563934.0, 4150737.0,       1.0,       1.0,       1.5);
     ( 563984.0, 4150737.0,       1.0,       1.0,       1.5);
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( 564034.0, 4150737.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4150737.0,       1.0,       1.0,       1.5);
( 564134.0, 4150737.0,       1.0,       1.0,       1.5);
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564184.0, 4150737.0, 1.0, 1.0, 1.5);
(564234.0, 4150737.0, 1.0, 1.0, 1.5);
(564284.0, 4150737.0, 1.0, 1.0, 1.5);
(564334.0, 4150737.0, 1.0, 1.0, 1.5);
(564384.0, 4150737.0, 1.0, 1.0, 1.5);
(564434.0, 4150737.0, 1.0, 1.0, 1.5);
(564484.0, 4150737.0, 1.0, 1.0, 1.5);
(564534.0, 4150737.0, 1.0, 1.0, 1.5);
(564584.0, 4150737.0, 1.0, 1.0, 1.5);
(564634.0, 4150737.0, 1.0, 1.0, 1.5);
(564684.0, 4150737.0, 1.0, 1.0, 1.5);
(563684.0, 4150787.0, 1.0, 1.0, 1.5);
(563734.0, 4150787.0, 1.0, 1.0, 1.5);
(563784.0, 4150787.0, 1.0, 1.0, 1.5);
(563834.0, 4150787.0, 1.0, 1.0, 1.5);
(563884.0, 4150787.0, 1.0, 1.0, 1.5);
(563934.0, 4150787.0, 1.0, 1.0, 1.5);
(563984.0, 4150787.0, 1.0, 1.0, 1.5);
(564034.0, 4150787.0, 1.0, 1.0, 1.5);
(564084.0, 4150787.0, 1.0, 1.0, 1.5);
(564134.0, 4150787.0, 1.0, 1.0, 1.5);
(564184.0, 4150787.0, 1.0, 1.0, 1.5);
(564234.0, 4150787.0, 1.0, 1.0, 1.5);
(564284.0, 4150787.0, 1.0, 1.0, 1.5);
(564334.0, 4150787.0, 1.0, 1.0, 1.5);
(564384.0, 4150787.0, 1.0, 1.0, 1.5);
(564434.0, 4150787.0, 1.0, 1.0, 1.5);
(564484.0, 4150787.0, 1.0, 1.0, 1.5);
(564534.0, 4150787.0, 1.0, 1.0, 1.5);
(564584.0, 4150787.0, 1.0, 1.0, 1.5);
(564634.0, 4150787.0, 1.0, 1.0, 1.5);
(564684.0, 4150787.0, 1.0, 1.0, 1.5);
(563684.0, 4150837.0, 1.0, 1.0, 1.5);
(563734.0, 4150837.0, 1.0, 1.0, 1.5);
(563784.0, 4150837.0, 1.0, 1.0, 1.5);

```
( 563834.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 563884.0, 4150837.0,       1.0,       1.0,       1.5);
( 563934.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 563984.0, 4150837.0,       1.0,       1.0,       1.5);
( 564034.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4150837.0,       1.0,       1.0,       1.5);
( 564134.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564184.0, 4150837.0,       1.0,       1.0,       1.5);
( 564234.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564284.0, 4150837.0,       1.0,       1.0,       1.5);
( 564334.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564384.0, 4150837.0,       1.0,       1.0,       1.5);
( 564434.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564484.0, 4150837.0,       1.0,       1.0,       1.5);
( 564534.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564584.0, 4150837.0,       1.0,       1.0,       1.5);
( 564634.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564684.0, 4150837.0,       1.0,       1.0,       1.5);
( 563684.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 563734.0, 4150887.0,       1.0,       1.0,       1.5);
( 563784.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 563834.0, 4150887.0,       1.0,       1.0,       1.5);
( 563884.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 563934.0, 4150887.0,       1.0,       1.0,       1.5);
( 563984.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4150887.0,       1.0,       1.0,       1.5);
( 564084.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4150887.0,       1.0,       1.0,       1.5);
( 564184.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564234.0, 4150887.0,       1.0,       1.0,       1.5);
( 564284.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564334.0, 4150887.0,       1.0,       1.0,       1.5);
( 564384.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564434.0, 4150887.0,       1.0,       1.0,       1.5);
( 564484.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564534.0, 4150887.0,       1.0,       1.0,       1.5);
( 564584.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564634.0, 4150887.0,       1.0,       1.0,       1.5);
( 564684.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 563684.0, 4150937.0,       1.0,       1.0,       1.5);
( 563734.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 563784.0, 4150937.0,       1.0,       1.0,       1.5);
( 563834.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 563884.0, 4150937.0,       1.0,       1.0,       1.5);
( 563934.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 563984.0, 4150937.0,       1.0,       1.0,       1.5);
( 564034.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4150937.0,       1.0,       1.0,       1.5);
( 564134.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 564184.0, 4150937.0,       1.0,       1.0,       1.5);
( 564234.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 564284.0, 4150937.0,       1.0,       1.0,       1.5);
```

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( 564334.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 564384.0, 4150937.0,       1.0,       1.0,       1.5);
( 564434.0, 4150937.0,       1.0,       1.0,       1.5);
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564484.0, 4150937.0, 1.0, 1.0, 1.5);
(564534.0, 4150937.0, 1.0, 1.0, 1.5);
(564584.0, 4150937.0, 1.0, 1.0, 1.5);
(564634.0, 4150937.0, 1.0, 1.0, 1.5);
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(563784.0, 4150987.0, 1.0, 1.0, 1.5);
(563834.0, 4150987.0, 1.0, 1.0, 1.5);
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(564034.0, 4150987.0, 1.0, 1.0, 1.5);
(564084.0, 4150987.0, 1.0, 1.0, 1.5);
(564134.0, 4150987.0, 1.0, 1.0, 1.5);
(564184.0, 4150987.0, 1.0, 1.0, 1.5);
(564234.0, 4150987.0, 1.0, 1.0, 1.5);
(564284.0, 4150987.0, 1.0, 1.0, 1.5);
(564334.0, 4150987.0, 1.0, 1.0, 1.5);
(564384.0, 4150987.0, 1.0, 1.0, 1.5);
(564434.0, 4150987.0, 1.0, 1.0, 1.5);
(564484.0, 4150987.0, 1.0, 1.0, 1.5);
(564534.0, 4150987.0, 1.0, 1.0, 1.5);
(564584.0, 4150987.0, 1.0, 1.0, 1.5);
(564634.0, 4150987.0, 1.0, 1.0, 1.5);
(564684.0, 4150987.0, 1.0, 1.0, 1.5);
(563684.0, 4151037.0, 1.0, 1.0, 1.5);
(563734.0, 4151037.0, 1.0, 1.0, 1.5);
(563784.0, 4151037.0, 1.0, 1.0, 1.5);
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

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( 564234.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564284.0, 4151687.0,       1.0,       1.0,       1.5);
( 564334.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564384.0, 4151687.0,       1.0,       1.0,       1.5);
( 564434.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564484.0, 4151687.0,       1.0,       1.0,       1.5);
( 564534.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564584.0, 4151687.0,       1.0,       1.0,       1.5);
( 564634.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564684.0, 4151687.0,       1.0,       1.0,       1.5);
( 564024.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4150977.0,       1.0,       1.0,       1.5);
( 564044.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564054.0, 4150977.0,       1.0,       1.0,       1.5);
( 564064.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564074.0, 4150977.0,       1.0,       1.0,       1.5);
( 564084.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564094.0, 4150977.0,       1.0,       1.0,       1.5);
( 564104.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564114.0, 4150977.0,       1.0,       1.0,       1.5);
( 564124.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4150977.0,       1.0,       1.0,       1.5);
( 564144.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564024.0, 4150987.0,       1.0,       1.0,       1.5);
( 564034.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564044.0, 4150987.0,       1.0,       1.0,       1.5);
( 564054.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564064.0, 4150987.0,       1.0,       1.0,       1.5);
( 564074.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4150987.0,       1.0,       1.0,       1.5);
( 564094.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564104.0, 4150987.0,       1.0,       1.0,       1.5);
( 564114.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564124.0, 4150987.0,       1.0,       1.0,       1.5);
( 564134.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564144.0, 4150987.0,       1.0,       1.0,       1.5);
( 564024.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4150997.0,       1.0,       1.0,       1.5);
( 564044.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564054.0, 4150997.0,       1.0,       1.0,       1.5);
( 564064.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564074.0, 4150997.0,       1.0,       1.0,       1.5);
( 564084.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564094.0, 4150997.0,       1.0,       1.0,       1.5);
( 564104.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564114.0, 4150997.0,       1.0,       1.0,       1.5);
( 564124.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4150997.0,       1.0,       1.0,       1.5);
( 564144.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564024.0, 4151007.0,       1.0,       1.0,       1.5);
( 564034.0, 4151007.0,       1.0,       1.0,       1.5);
     ( 564044.0, 4151007.0,       1.0,       1.0,       1.5);
```

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( 564054.0, 4151007.0,       1.0,       1.0,       1.5);
     ( 564064.0, 4151007.0,       1.0,       1.0,       1.5);
( 564074.0, 4151007.0,       1.0,       1.0,       1.5);
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564084.0, 4151007.0, 1.0, 1.0, 1.5);
(564094.0, 4151007.0, 1.0, 1.0, 1.5);
(564104.0, 4151007.0, 1.0, 1.0, 1.5);
(564114.0, 4151007.0, 1.0, 1.0, 1.5);
(564124.0, 4151007.0, 1.0, 1.0, 1.5);
(564134.0, 4151007.0, 1.0, 1.0, 1.5);
(564144.0, 4151007.0, 1.0, 1.0, 1.5);
(564024.0, 4151017.0, 1.0, 1.0, 1.5);
(564034.0, 4151017.0, 1.0, 1.0, 1.5);
(564044.0, 4151017.0, 1.0, 1.0, 1.5);
(564054.0, 4151017.0, 1.0, 1.0, 1.5);
(564064.0, 4151017.0, 1.0, 1.0, 1.5);
(564074.0, 4151017.0, 1.0, 1.0, 1.5);
(564084.0, 4151017.0, 1.0, 1.0, 1.5);
(564094.0, 4151017.0, 1.0, 1.0, 1.5);
(564104.0, 4151017.0, 1.0, 1.0, 1.5);
(564114.0, 4151017.0, 1.0, 1.0, 1.5);
(564124.0, 4151017.0, 1.0, 1.0, 1.5);
(564134.0, 4151017.0, 1.0, 1.0, 1.5);
(564144.0, 4151017.0, 1.0, 1.0, 1.5);
(564024.0, 4151027.0, 1.0, 1.0, 1.5);
(564034.0, 4151027.0, 1.0, 1.0, 1.5);
(564044.0, 4151027.0, 1.0, 1.0, 1.5);
(564054.0, 4151027.0, 1.0, 1.0, 1.5);
(564064.0, 4151027.0, 1.0, 1.0, 1.5);
(564074.0, 4151027.0, 1.0, 1.0, 1.5);
(564084.0, 4151027.0, 1.0, 1.0, 1.5);
(564094.0, 4151027.0, 1.0, 1.0, 1.5);
(564104.0, 4151027.0, 1.0, 1.0, 1.5);
(564114.0, 4151027.0, 1.0, 1.0, 1.5);
(564124.0, 4151027.0, 1.0, 1.0, 1.5);
(564134.0, 4151027.0, 1.0, 1.0, 1.5);
(564144.0, 4151027.0, 1.0, 1.0, 1.5);
(564024.0, 4151037.0, 1.0, 1.0, 1.5);
(564034.0, 4151037.0, 1.0, 1.0, 1.5);

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( 564044.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564054.0, 4151037.0,       1.0,       1.0,       1.5);
( 564064.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564074.0, 4151037.0,       1.0,       1.0,       1.5);
( 564084.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564094.0, 4151037.0,       1.0,       1.0,       1.5);
( 564104.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564114.0, 4151037.0,       1.0,       1.0,       1.5);
( 564124.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4151037.0,       1.0,       1.0,       1.5);
( 564144.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564024.0, 4151047.0,       1.0,       1.0,       1.5);
( 564034.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564044.0, 4151047.0,       1.0,       1.0,       1.5);
( 564054.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564064.0, 4151047.0,       1.0,       1.0,       1.5);
( 564074.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4151047.0,       1.0,       1.0,       1.5);
( 564094.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564104.0, 4151047.0,       1.0,       1.0,       1.5);
( 564114.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564124.0, 4151047.0,       1.0,       1.0,       1.5);
( 564134.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564144.0, 4151047.0,       1.0,       1.0,       1.5);
( 564024.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4151057.0,       1.0,       1.0,       1.5);
( 564044.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564054.0, 4151057.0,       1.0,       1.0,       1.5);
( 564064.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564074.0, 4151057.0,       1.0,       1.0,       1.5);
( 564084.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564094.0, 4151057.0,       1.0,       1.0,       1.5);
( 564104.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564114.0, 4151057.0,       1.0,       1.0,       1.5);
( 564124.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4151057.0,       1.0,       1.0,       1.5);
( 564144.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564024.0, 4151067.0,       1.0,       1.0,       1.5);
( 564034.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564044.0, 4151067.0,       1.0,       1.0,       1.5);
( 564054.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564064.0, 4151067.0,       1.0,       1.0,       1.5);
( 564074.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4151067.0,       1.0,       1.0,       1.5);
( 564094.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564104.0, 4151067.0,       1.0,       1.0,       1.5);
( 564114.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564124.0, 4151067.0,       1.0,       1.0,       1.5);
( 564134.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564144.0, 4151067.0,       1.0,       1.0,       1.5);
( 564108.0, 4151218.0,       1.0,       1.0,       1.5);
     ( 564126.9, 4151212.5,       1.0,       1.0,       1.5);
```

```
( 564146.6, 4151252.7,       1.0,       1.0,       1.5);
     ( 564179.2, 4151251.6,       1.0,       1.0,       1.5);
( 564210.5, 4151177.5,       1.0,       1.0,       1.5);
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564208.8, 4151145.2, 1.0, 1.0, 1.5);
(564183.2, 4151110.2, 1.0, 1.0, 1.5);
(564162.9, 4151096.4, 1.0, 1.0, 1.5);
(564148.6, 4151092.8, 1.0, 1.0, 1.5);
(564126.0, 4151099.0, 1.0, 1.0, 1.5);
(564088.3, 4151128.8, 1.0, 1.0, 1.5);

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** 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
```

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

Surface file: C:\Users\sjremote\Desktop\308-Phelps\San_Carlos_2013-2017\SAN_CARLOS_2013-2017 S Met Version: 18081
Profile file: C:\Users\sjremote\Desktop\308-Phelps\San_Carlos_2013-2017\SAN_CARLOS_2013-2017 P
Surface format: FREE
Profile format: FREE
Surface station no.: 23254 Upper air station no.: 23230
Name: SAN_CARLOS_AIRPORT Name: OAKLAND/WSO_AP
Year: 2013 Year: 2013

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
13	01	01	1	01	-1.6	0.048	-9.000	-9.000	-999.	25.	6.1	0.34	1.14	1.00	0.90	159.	15.0	277.6	8.8
13	01	01	1	02	-1.7	0.050	-9.000	-9.000	-999.	27.	7.0	0.09	1.14	1.00	1.30	354.	15.0	277.4	8.8
13	01	01	1	03	-3.5	0.079	-9.000	-9.000	-999.	54.	12.8	0.34	1.14	1.00	1.50	156.	15.0	277.9	8.8
13	01	01	1	04	-0.4	0.024	-9.000	-9.000	-999.	11.	2.9	0.04	1.14	1.00	0.70	151.	15.0	277.4	8.8
13	01	01	1	05	-1.4	0.045	-9.000	-9.000	-999.	23.	5.9	0.04	1.14	1.00	1.30	136.	15.0	278.2	8.8
13	01	01	1	06	-1.1	0.043	-9.000	-9.000	-999.	22.	6.7	0.23	1.14	1.00	0.90	300.	15.0	278.4	8.8
13	01	01	1	07	-1.4	0.048	-9.000	-9.000	-999.	25.	7.4	0.23	1.14	1.00	1.00	255.	15.0	278.8	8.8
13	01	01	1	08	-2.7	0.067	-9.000	-9.000	-999.	42.	10.4	0.23	1.14	0.74	1.40	296.	15.0	278.9	8.8
13	01	01	1	09	4.3	0.181	0.171	0.005	43.	185.	-127.0	0.09	1.14	0.38	2.20	340.	15.0	279.5	8.8
13	01	01	1	10	55.5	0.292	0.610	0.005	149.	379.	-41.0	0.09	1.14	0.26	3.30	26.	15.0	280.0	8.8

```
 13 01 01   1 11   94.9  0.234  1.017  0.005  405.  273.    -12.4
0.04   1.14   0.21    2.70   43.   15.0  280.8    8.8
 13 01 01   1 12  117.4  0.165  1.393  0.008  842.  162.     -3.5
0.04   1.14   0.20    1.60   58.   15.0  281.9    8.8
 13 01 01   1 13  121.5  0.200  1.448  0.007  913.  214.     -6.0
0.04   1.14   0.19    2.10   50.   15.0  282.8    8.8
 13 01 01   1 14  107.1  0.321  1.405  0.007  945.  435.    -28.0
0.04   1.14   0.20    4.00   44.   15.0  283.9    8.8
 13 01 01   1 15   68.3  0.330  1.218  0.006  965.  456.    -48.2
0.04   1.14   0.23    4.30   52.   15.0  284.0    8.8
 13 01 01   1 16   27.3  0.252  0.900  0.006  973.  306.    -53.3
0.04   1.14   0.31    3.30   52.   15.0  284.2    8.8
 13 01 01   1 17   -7.1  0.096 -9.000 -9.000 -999.   96.     11.4
0.04   1.14   0.55    2.80   55.   15.0  283.8    8.8
 13 01 01   1 18   -8.2  0.096 -9.000 -9.000 -999.   72.     10.0
0.04   1.14   1.00    2.80   74.   15.0  282.4    8.8
 13 01 01   1 19   -4.7  0.072 -9.000 -9.000 -999.   47.      7.3
0.04   1.14   1.00    2.10  150.   15.0  281.2    8.8
 13 01 01   1 20   -4.6  0.079 -9.000 -9.000 -999.   54.      9.9
0.34   1.14   1.00    1.50  186.   15.0  280.4    8.8
 13 01 01   1 21   -1.6  0.048 -9.000 -9.000 -999.   25.      6.0
0.34   1.14   1.00    0.90  172.   15.0  279.4    8.8
 13 01 01   1 22   -1.5  0.041 -9.000 -9.000 -999.   20.      4.2
0.04   1.14   1.00    1.20  151.   15.0  278.0    8.8
 13 01 01   1 23   -2.4  0.052 -9.000 -9.000 -999.   28.      5.2
0.04   1.14   1.00    1.50  130.   15.0  277.0    8.8
 13 01 01   1 24   -1.7  0.048 -9.000 -9.000 -999.   25.      5.9
0.34   1.14   1.00    0.90  182.   15.0  276.1    8.8


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW
sigmaV
 13 01 01 01    8.8 0 -999.  -99.00   277.7
999.0  -99.00  -99.00
 13 01 01 01   15.0 1  159.    0.90  -999.0   40.1  -99.00
0.50

 F indicates top of profile (=1) or below (=0)
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564114.01	4151261.20	0.05790	564135.61	4151266.04	0.05370
564119.54	4151293.69	0.02583	564130.77	4151312.01	0.01712
564163.09	4151305.62	0.01627	564177.44	4151299.74	0.01653
564196.97	4151291.79	0.01696	564210.10	4151280.21	0.02045
564220.30	4151264.14	0.03081	564227.90	4151247.38	0.04799
564238.45	4151230.27	0.06481	564240.80	4151212.56	0.09007
564248.22	4151198.20	0.10101	564256.35	4151175.24	0.11471
564269.75	4151162.08	0.09986	564286.49	4151151.08	0.08058
564308.10	4151135.11	0.06178	564329.77	4151126.39	0.04818
564243.38	4151128.82	0.16878			

564191.23 4151093.66 0.29239
564176.16 4151074.52 0.22480
564232.45 4151110.30 0.18778
564235.20 4151074.64 0.12481
564247.20 4151064.67 0.09742
564261.03 4151054.91 0.07678
564279.33 4151048.00 0.06064
564092.05 4151261.51 0.04797
564077.80 4151271.65 0.03524
564075.89 4151298.68 0.02210
564092.20 4151320.13 0.01607
564079.00 4151329.27 0.01400
564064.02 4151340.14 0.01200
564053.40 4151343.64 0.01138
564038.54 4151353.00 0.01003
564026.30 4151362.62 0.00891
564014.58 4151371.30 0.00804
564004.15 4151384.96 0.00700
563986.52 4151397.01 0.00616
563975.05 4151409.36 0.00551
563812.99 4151377.74 0.00360
563786.51 4151378.74 0.00322
563747.29 4151364.63 0.00286
563732.55 4151348.64 0.00282
564252.63 4151299.36 0.01152
564270.08 4151278.80 0.01623
564280.78 4151263.04 0.02124
564299.64 4151254.31 0.02223
564320.76 4151241.36 0.02370
564338.49 4151199.69 0.03316
564223.05 4151086.47 0.16964
564223.05 4151100.23 0.20121
564207.53 4151007.19 0.06703
564220.50 4150997.85 0.05811
564231.22 4150986.27 0.04980
564270.64 4151004.25 0.04738
564293.29 4151001.31 0.03974
564316.46 4150997.68 0.03320
564190.93 4150987.82 0.05327
564158.55 4151084.80 0.28581
563684.00 4150687.00 0.00170
563734.00 4150687.00 0.00188
563784.00 4150687.00 0.00208
563834.00 4150687.00 0.00230
563884.00 4150687.00 0.00253
563934.00 4150687.00 0.00281
563984.00 4150687.00 0.00314
564034.00 4150687.00 0.00359
564084.00 4150687.00 0.00421
564134.00 4150687.00 0.00503
564184.00 4150687.00 0.00596
564234.00 4150687.00 0.00680

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564284.00    4150687.00        0.00727
         564334.00    4150687.00        0.00727
564384.00    4150687.00        0.00688
         564434.00    4150687.00        0.00627
564484.00    4150687.00        0.00563
         564534.00    4150687.00        0.00504
564584.00    4150687.00        0.00453
         564634.00    4150687.00        0.00408
564684.00    4150687.00        0.00369
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
563684.00	4150737.00	0.00190	563734.00	4150737.00	0.00214
563784.00	4150737.00	0.00240	563834.00	4150737.00	0.00269
563884.00	4150737.00	0.00301	563934.00	4150737.00	0.00336
563984.00	4150737.00	0.00379	564034.00	4150737.00	0.00438
564084.00	4150737.00	0.00521	564134.00	4150737.00	0.00632
564184.00	4150737.00	0.00759	564234.00	4150737.00	0.00864
564284.00	4150737.00	0.00910	564334.00	4150737.00	0.00887
564384.00	4150737.00	0.00816	564434.00	4150737.00	0.00728
564484.00	4150737.00	0.00643	564534.00	4150737.00	0.00568
564584.00	4150737.00	0.00505			

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564634.00    4150737.00        0.00451
         564684.00    4150737.00        0.00404
563684.00    4150787.00        0.00211
         563734.00    4150787.00        0.00243
563784.00    4150787.00        0.00279
         563834.00    4150787.00        0.00318
563884.00    4150787.00        0.00362
         563934.00    4150787.00        0.00411
563984.00    4150787.00        0.00469
         564034.00    4150787.00        0.00547
564084.00    4150787.00        0.00661
         564134.00    4150787.00        0.00819
564184.00    4150787.00        0.00997
         564234.00    4150787.00        0.01129
564284.00    4150787.00        0.01161
         564334.00    4150787.00        0.01095
564384.00    4150787.00        0.00976
         564434.00    4150787.00        0.00850
564484.00    4150787.00        0.00737
         564534.00    4150787.00        0.00642
564584.00    4150787.00        0.00563
         564634.00    4150787.00        0.00497
564684.00    4150787.00        0.00440
         563684.00    4150837.00        0.00233
563734.00    4150837.00        0.00274
         563784.00    4150837.00        0.00323
563834.00    4150837.00        0.00379
         563884.00    4150837.00        0.00442
563934.00    4150837.00        0.00513
         563984.00    4150837.00        0.00595
564034.00    4150837.00        0.00703
         564084.00    4150837.00        0.00867
564134.00    4150837.00        0.01102
         564184.00    4150837.00        0.01361
564234.00    4150837.00        0.01524
         564284.00    4150837.00        0.01515
564334.00    4150837.00        0.01371
         564384.00    4150837.00        0.01179
564434.00    4150837.00        0.00999
         564484.00    4150837.00        0.00848
564534.00    4150837.00        0.00726
         564584.00    4150837.00        0.00626
564634.00    4150837.00        0.00544
         564684.00    4150837.00        0.00475
563684.00    4150887.00        0.00255
         563734.00    4150887.00        0.00306
563784.00    4150887.00        0.00370
         563834.00    4150887.00        0.00450
563884.00    4150887.00        0.00545
         563934.00    4150887.00        0.00654
563984.00    4150887.00        0.00780
         564034.00    4150887.00        0.00942
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564084.00    4150887.00        0.01188
         564134.00    4150887.00        0.01560
564184.00    4150887.00        0.01958
         564234.00    4150887.00        0.02142
564284.00    4150887.00        0.02020
         564334.00    4150887.00        0.01726
564384.00    4150887.00        0.01421
         564434.00    4150887.00        0.01169
564484.00    4150887.00        0.00971
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564534.00	4150887.00	0.00815	564584.00	4150887.00	0.00690
564634.00	4150887.00	0.00590	564684.00	4150887.00	0.00509
563684.00	4150937.00	0.00275	563734.00	4150937.00	0.00336
563784.00	4150937.00	0.00419	563834.00	4150937.00	0.00528
563884.00	4150937.00	0.00670	563934.00	4150937.00	0.00848
563984.00	4150937.00	0.01062	564034.00	4150937.00	0.01329
564084.00	4150937.00	0.01733	564134.00	4150937.00	0.02376
564184.00	4150937.00	0.03028	564234.00	4150937.00	0.03164
564284.00	4150937.00	0.02759	564334.00	4150937.00	0.02198
564384.00	4150937.00	0.01723			

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564434.00    4150937.00        0.01368
         564484.00    4150937.00        0.01104
564534.00    4150937.00        0.00906
         564584.00    4150937.00        0.00753
564634.00    4150937.00        0.00633
         564684.00    4150937.00        0.00539
563684.00    4150987.00        0.00293
         563734.00    4150987.00        0.00364
563784.00    4150987.00        0.00464
         563834.00    4150987.00        0.00605
563884.00    4150987.00        0.00808
         563934.00    4150987.00        0.01095
563984.00    4150987.00        0.01489
         564034.00    4150987.00        0.02009
564084.00    4150987.00        0.02780
         564134.00    4150987.00        0.04059
564184.00    4150987.00        0.05215
         564234.00    4150987.00        0.04967
564284.00    4150987.00        0.03844
         564334.00    4150987.00        0.02805
564384.00    4150987.00        0.02077
         564434.00    4150987.00        0.01583
564484.00    4150987.00        0.01240
         564534.00    4150987.00        0.00992
564584.00    4150987.00        0.00810
         564634.00    4150987.00        0.00672
564684.00    4150987.00        0.00566
         563684.00    4151037.00        0.00311
563734.00    4151037.00        0.00390
         563784.00    4151037.00        0.00504
563834.00    4151037.00        0.00675
         563884.00    4151037.00        0.00941
563934.00    4151037.00        0.01370
         563984.00    4151037.00        0.02079
564034.00    4151037.00        0.03243
         564084.00    4151037.00        0.05202
564134.00    4151037.00        0.08558
         564184.00    4151037.00        0.10674
564234.00    4151037.00        0.08324
         564284.00    4151037.00        0.05392
564334.00    4151037.00        0.03538
         564384.00    4151037.00        0.02458
564434.00    4151037.00        0.01796
         564484.00    4151037.00        0.01363
564534.00    4151037.00        0.01068
         564584.00    4151037.00        0.00857
564634.00    4151037.00        0.00702
         564684.00    4151037.00        0.00586
563684.00    4151087.00        0.00327
         563734.00    4151087.00        0.00413
563784.00    4151087.00        0.00539
         563834.00    4151087.00        0.00732
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563884.00    4151087.00        0.01050
         563934.00    4151087.00        0.01614
563984.00    4151087.00        0.02727
         564034.00    4151087.00        0.05232
564084.00    4151087.00        0.11737
         564134.00    4151087.00        0.26377
564184.00    4151087.00        0.27675
         564234.00    4151087.00        0.14529
564284.00    4151087.00        0.07335
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564334.00	4151087.00	0.04285	564384.00	4151087.00	0.02795
564434.00	4151087.00	0.01962	564484.00	4151087.00	0.01450
564534.00	4151087.00	0.01115	564584.00	4151087.00	0.00883
564634.00	4151087.00	0.00717	564684.00	4151087.00	0.00593
563684.00	4151137.00	0.00335	563734.00	4151137.00	0.00425
563784.00	4151137.00	0.00556	563834.00	4151137.00	0.00761
563884.00	4151137.00	0.01104	563934.00	4151137.00	0.01736
563984.00	4151137.00	0.03097	564034.00	4151137.00	0.06903
564084.00	4151137.00	0.21669	564234.00	4151137.00	0.20948
564284.00	4151137.00	0.08516			

564334.00 4151137.00 0.04599
564384.00 4151137.00 0.02884
564434.00 4151137.00 0.01979
564484.00 4151137.00 0.01443
564534.00 4151137.00 0.01099
564584.00 4151137.00 0.00866
564634.00 4151137.00 0.00699
564684.00 4151137.00 0.00577
563684.00 4151187.00 0.00329
563734.00 4151187.00 0.00414
563784.00 4151187.00 0.00539
563834.00 4151187.00 0.00733
563884.00 4151187.00 0.01051
563934.00 4151187.00 0.01628
563984.00 4151187.00 0.02830
564034.00 4151187.00 0.06007
564084.00 4151187.00 0.18020
564234.00 4151187.00 0.15448
564284.00 4151187.00 0.06742
564334.00 4151187.00 0.03817
564384.00 4151187.00 0.02468
564434.00 4151187.00 0.01730
564484.00 4151187.00 0.01281
564534.00 4151187.00 0.00988
564584.00 4151187.00 0.00785
564634.00 4151187.00 0.00639
564684.00 4151187.00 0.00530
563684.00 4151237.00 0.00306
563734.00 4151237.00 0.00381
563784.00 4151237.00 0.00488
563834.00 4151237.00 0.00649
563884.00 4151237.00 0.00903
563934.00 4151237.00 0.01333
563984.00 4151237.00 0.02129
564034.00 4151237.00 0.03757
564084.00 4151237.00 0.07321
564134.00 4151237.00 0.14055
564234.00 4151237.00 0.05872
564284.00 4151237.00 0.03402
564334.00 4151237.00 0.02293
564384.00 4151237.00 0.01660
564434.00 4151237.00 0.01257
564484.00 4151237.00 0.00983
564534.00 4151237.00 0.00789
564584.00 4151237.00 0.00646
564634.00 4151237.00 0.00538
564684.00 4151237.00 0.00455
563684.00 4151287.00 0.00274
563734.00 4151287.00 0.00336
563784.00 4151287.00 0.00422
563834.00 4151287.00 0.00546
563884.00 4151287.00 0.00731

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563934.00    4151287.00        0.01016
         563984.00    4151287.00        0.01456
564034.00    4151287.00        0.02084
         564084.00    4151287.00        0.02776
564134.00    4151287.00        0.02915
         564184.00    4151287.00        0.02037
564234.00    4151287.00        0.01576
         564284.00    4151287.00        0.01305
564334.00    4151287.00        0.01092
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564384.00	4151287.00	0.00919	564434.00	4151287.00	0.00777
564484.00	4151287.00	0.00660	564534.00	4151287.00	0.00563
564584.00	4151287.00	0.00484	564634.00	4151287.00	0.00419
564684.00	4151287.00	0.00365	563684.00	4151337.00	0.00243
563734.00	4151337.00	0.00293	563784.00	4151337.00	0.00361
563834.00	4151337.00	0.00455	563884.00	4151337.00	0.00586
563934.00	4151337.00	0.00763	563984.00	4151337.00	0.00980
564034.00	4151337.00	0.01181	564084.00	4151337.00	0.01254
564134.00	4151337.00	0.01116	564184.00	4151337.00	0.00905
564234.00	4151337.00	0.00724			

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564284.00    4151337.00        0.00603
         564334.00    4151337.00        0.00534
564384.00    4151337.00        0.00487
         564434.00    4151337.00        0.00448
564484.00    4151337.00        0.00410
         564534.00    4151337.00        0.00373
564584.00    4151337.00        0.00338
         564634.00    4151337.00        0.00306
564684.00    4151337.00        0.00276
         563684.00    4151387.00        0.00216
563734.00    4151387.00        0.00257
         563784.00    4151387.00        0.00311
563834.00    4151387.00        0.00381
         563884.00    4151387.00        0.00470
563934.00    4151387.00        0.00571
         563984.00    4151387.00        0.00662
564034.00    4151387.00        0.00706
         564084.00    4151387.00        0.00678
564134.00    4151387.00        0.00604
         564184.00    4151387.00        0.00526
564234.00    4151387.00        0.00447
         564284.00    4151387.00        0.00375
564334.00    4151387.00        0.00323
         564384.00    4151387.00        0.00290
564434.00    4151387.00        0.00270
         564484.00    4151387.00        0.00256
564534.00    4151387.00        0.00242
         564584.00    4151387.00        0.00229
564634.00    4151387.00        0.00216
         564684.00    4151387.00        0.00202
563684.00    4151437.00        0.00193
         563734.00    4151437.00        0.00227
563784.00    4151437.00        0.00269
         563834.00    4151437.00        0.00320
563884.00    4151437.00        0.00376
         563934.00    4151437.00        0.00426
563984.00    4151437.00        0.00455
         564034.00    4151437.00        0.00451
564084.00    4151437.00        0.00422
         564134.00    4151437.00        0.00384
564184.00    4151437.00        0.00348
         564234.00    4151437.00        0.00308
564284.00    4151437.00        0.00267
         564334.00    4151437.00        0.00229
564384.00    4151437.00        0.00201
         564434.00    4151437.00        0.00183
564484.00    4151437.00        0.00171
         564534.00    4151437.00        0.00163
564584.00    4151437.00        0.00157
         564634.00    4151437.00        0.00152
564684.00    4151437.00        0.00146
         563684.00    4151487.00        0.00174
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563734.00    4151487.00        0.00201
         563784.00    4151487.00        0.00233
563834.00    4151487.00        0.00267
         563884.00    4151487.00        0.00298
563934.00    4151487.00        0.00318
         563984.00    4151487.00        0.00321
564034.00    4151487.00        0.00308
         564084.00    4151487.00        0.00288
564134.00    4151487.00        0.00268
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564184.00	4151487.00	0.00248	564234.00	4151487.00	0.00226
564284.00	4151487.00	0.00201	564334.00	4151487.00	0.00176
564384.00	4151487.00	0.00155	564434.00	4151487.00	0.00138
564484.00	4151487.00	0.00126	564534.00	4151487.00	0.00118
564584.00	4151487.00	0.00113	564634.00	4151487.00	0.00109
564684.00	4151487.00	0.00106	563684.00	4151537.00	0.00157
563734.00	4151537.00	0.00178	563784.00	4151537.00	0.00200
563834.00	4151537.00	0.00221	563884.00	4151537.00	0.00235
563934.00	4151537.00	0.00240	563984.00	4151537.00	0.00235
564034.00	4151537.00	0.00224			

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564084.00    4151537.00        0.00211
         564134.00    4151537.00        0.00199
564184.00    4151537.00        0.00187
         564234.00    4151537.00        0.00173
564284.00    4151537.00        0.00158
         564334.00    4151537.00        0.00141
564384.00    4151537.00        0.00125
         564434.00    4151537.00        0.00111
564484.00    4151537.00        0.00100
         564534.00    4151537.00        0.00092
564584.00    4151537.00        0.00087
         564634.00    4151537.00        0.00083
564684.00    4151537.00        0.00080
         563684.00    4151587.00        0.00141
563734.00    4151587.00        0.00157
         563784.00    4151587.00        0.00171
563834.00    4151587.00        0.00181
         563884.00    4151587.00        0.00186
563934.00    4151587.00        0.00184
         563984.00    4151587.00        0.00178
564034.00    4151587.00        0.00170
         564084.00    4151587.00        0.00161
564134.00    4151587.00        0.00154
         564184.00    4151587.00        0.00146
564234.00    4151587.00        0.00137
         564284.00    4151587.00        0.00127
564334.00    4151587.00        0.00116
         564384.00    4151587.00        0.00104
564434.00    4151587.00        0.00093
         564484.00    4151587.00        0.00084
564534.00    4151587.00        0.00076
         564584.00    4151587.00        0.00070
564634.00    4151587.00        0.00066
         564684.00    4151587.00        0.00064
563684.00    4151637.00        0.00126
         563734.00    4151637.00        0.00136
563784.00    4151637.00        0.00144
         563834.00    4151637.00        0.00149
563884.00    4151637.00        0.00149
         563934.00    4151637.00        0.00145
563984.00    4151637.00        0.00140
         564034.00    4151637.00        0.00134
564084.00    4151637.00        0.00128
         564134.00    4151637.00        0.00123
564184.00    4151637.00        0.00118
         564234.00    4151637.00        0.00112
564284.00    4151637.00        0.00104
         564334.00    4151637.00        0.00096
564384.00    4151637.00        0.00088
         564434.00    4151637.00        0.00080
564484.00    4151637.00        0.00072
         564534.00    4151637.00        0.00065
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564584.00    4151637.00        0.00060
         564634.00    4151637.00        0.00056
564684.00    4151637.00        0.00053
         563684.00    4151687.00        0.00112
563734.00    4151687.00        0.00118
         563784.00    4151687.00        0.00122
563834.00    4151687.00        0.00123
         563884.00    4151687.00        0.00121
563934.00    4151687.00        0.00117
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
563984.00	4151687.00	0.00113	564034.00	4151687.00	0.00108
564084.00	4151687.00	0.00105	564134.00	4151687.00	0.00101
564184.00	4151687.00	0.00097	564234.00	4151687.00	0.00093
564284.00	4151687.00	0.00088	564334.00	4151687.00	0.00082
564384.00	4151687.00	0.00076	564434.00	4151687.00	0.00069
564484.00	4151687.00	0.00063	564534.00	4151687.00	0.00057
564584.00	4151687.00	0.00052	564634.00	4151687.00	0.00048
564684.00	4151687.00	0.00045	564024.00	4150977.00	0.01738
564034.00	4150977.00	0.01839	564044.00	4150977.00	0.01948
564054.00	4150977.00	0.02066			

564064.00 4150977.00 0.02196
564074.00 4150977.00 0.02341
564084.00 4150977.00 0.02504
564094.00 4150977.00 0.02686
564104.00 4150977.00 0.02889
564114.00 4150977.00 0.03112
564124.00 4150977.00 0.03351
564134.00 4150977.00 0.03601
564144.00 4150977.00 0.03853
564024.00 4150987.00 0.01892
564034.00 4150987.00 0.02009
564044.00 4150987.00 0.02136
564054.00 4150987.00 0.02273
564064.00 4150987.00 0.02424
564074.00 4150987.00 0.02592
564084.00 4150987.00 0.02780
564094.00 4150987.00 0.02991
564104.00 4150987.00 0.03227
564114.00 4150987.00 0.03487
564124.00 4150987.00 0.03767
564134.00 4150987.00 0.04059
564144.00 4150987.00 0.04351
564024.00 4150997.00 0.02064
564034.00 4150997.00 0.02202
564044.00 4150997.00 0.02350
564054.00 4150997.00 0.02511
564064.00 4150997.00 0.02688
564074.00 4150997.00 0.02885
564084.00 4150997.00 0.03105
564094.00 4150997.00 0.03353
564104.00 4150997.00 0.03630
564114.00 4150997.00 0.03937
564124.00 4150997.00 0.04267
564134.00 4150997.00 0.04611
564144.00 4150997.00 0.04955
564024.00 4151007.00 0.02256
564034.00 4151007.00 0.02419
564044.00 4151007.00 0.02594
564054.00 4151007.00 0.02786
564064.00 4151007.00 0.02996
564074.00 4151007.00 0.03230
564084.00 4151007.00 0.03492
564094.00 4151007.00 0.03787
564104.00 4151007.00 0.04117
564114.00 4151007.00 0.04482
564124.00 4151007.00 0.04876
564134.00 4151007.00 0.05287
564144.00 4151007.00 0.05694
564024.00 4151017.00 0.02469
564034.00 4151017.00 0.02663
564044.00 4151017.00 0.02874
564054.00 4151017.00 0.03104

```
564064.00    4151017.00        0.03357
         564074.00    4151017.00        0.03640
564084.00    4151017.00        0.03956
         564094.00    4151017.00        0.04312
564104.00    4151017.00        0.04712
         564114.00    4151017.00        0.05153
564124.00    4151017.00        0.05631
         564134.00    4151017.00        0.06126
564144.00    4151017.00        0.06614
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564024.00	4151027.00	0.02704	564034.00	4151027.00	0.02937
564044.00	4151027.00	0.03192	564054.00	4151027.00	0.03472
564064.00	4151027.00	0.03782	564074.00	4151027.00	0.04128
564084.00	4151027.00	0.04518	564094.00	4151027.00	0.04956
564104.00	4151027.00	0.05449	564114.00	4151027.00	0.05993
564124.00	4151027.00	0.06580	564134.00	4151027.00	0.07188
564144.00	4151027.00	0.07780	564024.00	4151037.00	0.02962
564034.00	4151037.00	0.03243	564044.00	4151037.00	0.03553
564054.00	4151037.00	0.03896	564064.00	4151037.00	0.04281
564074.00	4151037.00	0.04713			

564084.00   4151037.00   0.05202
         564094.00   4151037.00   0.05755
564104.00   4151037.00   0.06376
         564114.00   4151037.00   0.07062
564124.00   4151037.00   0.07799
         564134.00   4151037.00   0.08558
564144.00   4151037.00   0.09288
         564024.00   4151047.00   0.03243
564034.00   4151047.00   0.03581
         564044.00   4151047.00   0.03960
564054.00   4151047.00   0.04385
         564064.00   4151047.00   0.04866
564074.00   4151047.00   0.05414
         564084.00   4151047.00   0.06040
564094.00   4151047.00   0.06755
         564104.00   4151047.00   0.07560
564114.00   4151047.00   0.08449
         564124.00   4151047.00   0.09400
564134.00   4151047.00   0.10367
         564144.00   4151047.00   0.11281
564024.00   4151057.00   0.03546
         564034.00   4151057.00   0.03953
564044.00   4151057.00   0.04416
         564054.00   4151057.00   0.04945
564064.00   4151057.00   0.05551
         564074.00   4151057.00   0.06254
564084.00   4151057.00   0.07071
         564094.00   4151057.00   0.08017
564104.00   4151057.00   0.09093
         564114.00   4151057.00   0.10284
564124.00   4151057.00   0.11548
         564134.00   4151057.00   0.12813
564144.00   4151057.00   0.13976
         564024.00   4151067.00   0.03867
564034.00   4151067.00   0.04356
         564044.00   4151067.00   0.04922
564054.00   4151067.00   0.05580
         564064.00   4151067.00   0.06348
564074.00   4151067.00   0.07256
         564084.00   4151067.00   0.08336
564094.00   4151067.00   0.09614
         564104.00   4151067.00   0.11095
564114.00   4151067.00   0.12742
         564124.00   4151067.00   0.14479
564134.00   4151067.00   0.16178
         564144.00   4151067.00   0.17669
564107.97   4151217.98   0.16036
         564126.88   4151212.46   0.22767
564146.59   4151252.73   0.08095
         564179.25   4151251.60   0.06349
564210.51   4151177.54   0.27127
         564208.82   4151145.16   0.33699

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564183.19    4151110.24        0.37531
         564162.92    4151096.45        0.34401
564148.56    4151092.79        0.32120
         564126.03    4151098.98        0.30288
564088.27    4151128.81        0.22298
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564114.01	4151261.20	0.05790	564135.61	4151266.04	0.05370
564119.54	4151293.69	0.02583	564130.77	4151312.01	0.01712
564163.09	4151305.62	0.01627	564177.44	4151299.74	0.01653
564196.97	4151291.79	0.01696	564210.10	4151280.21	0.02045
564220.30	4151264.14	0.03081	564227.90	4151247.38	0.04799
564238.45	4151230.27	0.06481	564240.80	4151212.56	0.09007
564248.22	4151198.20	0.10101	564256.35	4151175.24	0.11471
564269.75	4151162.08	0.09986	564286.49	4151151.08	0.08058
564308.10	4151135.11	0.06178	564329.77	4151126.39	0.04818
564243.38	4151128.82	0.16878	564191.23	4151093.66	0.29238
564176.16	4151074.52	0.22478	564232.45	4151110.30	0.18778
564235.20	4151074.64	0.12480	564247.20	4151064.67	0.09741
564261.03	4151054.91	0.07677	564279.33	4151048.00	0.06064
564092.05	4151261.51	0.04797			

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564077.80    4151271.65        0.03524
         564075.89    4151298.68        0.02210
564092.20    4151320.13        0.01607
         564079.00    4151329.27        0.01400
564064.02    4151340.14        0.01200
         564053.40    4151343.64        0.01138
564038.54    4151353.00        0.01003
         564026.30    4151362.62        0.00891
564014.58    4151371.30        0.00804
         564004.15    4151384.96        0.00700
563986.52    4151397.01        0.00616
         563975.05    4151409.36        0.00551
563812.99    4151377.74        0.00360
         563786.51    4151378.74        0.00322
563747.29    4151364.63        0.00286
         563732.55    4151348.64        0.00282
564252.63    4151299.36        0.01152
         564270.08    4151278.80        0.01623
564280.78    4151263.04        0.02124
         564299.64    4151254.31        0.02223
564320.76    4151241.36        0.02370
         564338.49    4151199.69        0.03316
564223.05    4151086.47        0.16963
         564223.05    4151100.23        0.20121
564207.53    4151007.19        0.06698
         564220.50    4150997.85        0.05806
564231.22    4150986.27        0.04975
         564270.64    4151004.25        0.04736
564293.29    4151001.31        0.03972
         564316.46    4150997.68        0.03319
564190.93    4150987.82        0.05324
         564158.55    4151084.80        0.28578
563684.00    4150687.00        0.00170
         563734.00    4150687.00        0.00188
563784.00    4150687.00        0.00208
         563834.00    4150687.00        0.00230
563884.00    4150687.00        0.00253
         563934.00    4150687.00        0.00281
563984.00    4150687.00        0.00314
         564034.00    4150687.00        0.00359
564084.00    4150687.00        0.00421
         564134.00    4150687.00        0.00503
564184.00    4150687.00        0.00596
         564234.00    4150687.00        0.00679
564284.00    4150687.00        0.00727
         564334.00    4150687.00        0.00727
564384.00    4150687.00        0.00687
         564434.00    4150687.00        0.00627
564484.00    4150687.00        0.00563
         564534.00    4150687.00        0.00504
564584.00    4150687.00        0.00452
         564634.00    4150687.00        0.00408
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564684.00 4150687.00 0.00369

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
563684.00	4150737.00	0.00190	563734.00	4150737.00	0.00214
563784.00	4150737.00	0.00240	563834.00	4150737.00	0.00269
563884.00	4150737.00	0.00301	563934.00	4150737.00	0.00336
563984.00	4150737.00	0.00379	564034.00	4150737.00	0.00438
564084.00	4150737.00	0.00520	564134.00	4150737.00	0.00632
564184.00	4150737.00	0.00759	564234.00	4150737.00	0.00864
564284.00	4150737.00	0.00909	564334.00	4150737.00	0.00886
564384.00	4150737.00	0.00815	564434.00	4150737.00	0.00727
564484.00	4150737.00	0.00642	564534.00	4150737.00	0.00568
564584.00	4150737.00	0.00505	564634.00	4150737.00	0.00451
564684.00	4150737.00	0.00404	563684.00	4150787.00	0.00211
563734.00	4150787.00	0.00243	563784.00	4150787.00	0.00279
563834.00	4150787.00	0.00318	563884.00	4150787.00	0.00362
563934.00	4150787.00	0.00410			

```
563984.00    4150787.00        0.00468
         564034.00    4150787.00        0.00547
564084.00    4150787.00        0.00661
         564134.00    4150787.00        0.00819
564184.00    4150787.00        0.00996
         564234.00    4150787.00        0.01129
564284.00    4150787.00        0.01160
         564334.00    4150787.00        0.01093
564384.00    4150787.00        0.00974
         564434.00    4150787.00        0.00848
564484.00    4150787.00        0.00736
         564534.00    4150787.00        0.00642
564584.00    4150787.00        0.00563
         564634.00    4150787.00        0.00496
564684.00    4150787.00        0.00440
         563684.00    4150837.00        0.00233
563734.00    4150837.00        0.00274
         563784.00    4150837.00        0.00323
563834.00    4150837.00        0.00379
         563884.00    4150837.00        0.00442
563934.00    4150837.00        0.00513
         563984.00    4150837.00        0.00595
564034.00    4150837.00        0.00703
         564084.00    4150837.00        0.00867
564134.00    4150837.00        0.01102
         564184.00    4150837.00        0.01360
564234.00    4150837.00        0.01523
         564284.00    4150837.00        0.01511
564334.00    4150837.00        0.01364
         564384.00    4150837.00        0.01173
564434.00    4150837.00        0.00994
         564484.00    4150837.00        0.00846
564534.00    4150837.00        0.00725
         564584.00    4150837.00        0.00626
564634.00    4150837.00        0.00544
         564684.00    4150837.00        0.00475
563684.00    4150887.00        0.00255
         563734.00    4150887.00        0.00306
563784.00    4150887.00        0.00370
         563834.00    4150887.00        0.00450
563884.00    4150887.00        0.00545
         563934.00    4150887.00        0.00654
563984.00    4150887.00        0.00780
         564034.00    4150887.00        0.00942
564084.00    4150887.00        0.01188
         564134.00    4150887.00        0.01559
564184.00    4150887.00        0.01957
         564234.00    4150887.00        0.02140
564284.00    4150887.00        0.02016
         564334.00    4150887.00        0.01723
564384.00    4150887.00        0.01420
         564434.00    4150887.00        0.01168
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564484.00 4150887.00 0.00970

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564534.00	4150887.00	0.00814	564584.00	4150887.00	0.00690
564634.00	4150887.00	0.00590	564684.00	4150887.00	0.00508
563684.00	4150937.00	0.00275	563734.00	4150937.00	0.00336
563784.00	4150937.00	0.00419	563834.00	4150937.00	0.00528
563884.00	4150937.00	0.00670	563934.00	4150937.00	0.00848
563984.00	4150937.00	0.01062	564034.00	4150937.00	0.01329
564084.00	4150937.00	0.01732	564134.00	4150937.00	0.02375
564184.00	4150937.00	0.03027	564234.00	4150937.00	0.03161
564284.00	4150937.00	0.02754	564334.00	4150937.00	0.02196
564384.00	4150937.00	0.01722	564434.00	4150937.00	0.01367
564484.00	4150937.00	0.01104	564534.00	4150937.00	0.00905
564584.00	4150937.00	0.00753	564634.00	4150937.00	0.00633
564684.00	4150937.00	0.00539	563684.00	4150987.00	0.00293
563734.00	4150987.00	0.00364			

```
563784.00    4150987.00        0.00464
         563834.00    4150987.00        0.00605
563884.00    4150987.00        0.00808
         563934.00    4150987.00        0.01095
563984.00    4150987.00        0.01488
         564034.00    4150987.00        0.02009
564084.00    4150987.00        0.02779
         564134.00    4150987.00        0.04058
564184.00    4150987.00        0.05213
         564234.00    4150987.00        0.04962
564284.00    4150987.00        0.03841
         564334.00    4150987.00        0.02804
564384.00    4150987.00        0.02077
         564434.00    4150987.00        0.01583
564484.00    4150987.00        0.01239
         564534.00    4150987.00        0.00992
564584.00    4150987.00        0.00810
         564634.00    4150987.00        0.00672
564684.00    4150987.00        0.00565
         563684.00    4151037.00        0.00311
563734.00    4151037.00        0.00390
         563784.00    4151037.00        0.00504
563834.00    4151037.00        0.00675
         563884.00    4151037.00        0.00941
563934.00    4151037.00        0.01370
         563984.00    4151037.00        0.02078
564034.00    4151037.00        0.03242
         564084.00    4151037.00        0.05201
564134.00    4151037.00        0.08555
         564184.00    4151037.00        0.10669
564234.00    4151037.00        0.08322
         564284.00    4151037.00        0.05391
564334.00    4151037.00        0.03537
         564384.00    4151037.00        0.02458
564434.00    4151037.00        0.01795
         564484.00    4151037.00        0.01363
564534.00    4151037.00        0.01067
         564584.00    4151037.00        0.00857
564634.00    4151037.00        0.00702
         564684.00    4151037.00        0.00586
563684.00    4151087.00        0.00327
         563734.00    4151087.00        0.00413
563784.00    4151087.00        0.00539
         563834.00    4151087.00        0.00732
563884.00    4151087.00        0.01050
         563934.00    4151087.00        0.01614
563984.00    4151087.00        0.02727
         564034.00    4151087.00        0.05232
564084.00    4151087.00        0.11735
         564134.00    4151087.00        0.26374
564184.00    4151087.00        0.27674
         564234.00    4151087.00        0.14528
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564284.00 4151087.00 0.07334

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564334.00	4151087.00	0.04285	564384.00	4151087.00	0.02794
564434.00	4151087.00	0.01961	564484.00	4151087.00	0.01450
564534.00	4151087.00	0.01115	564584.00	4151087.00	0.00883
564634.00	4151087.00	0.00716	564684.00	4151087.00	0.00593
563684.00	4151137.00	0.00335	563734.00	4151137.00	0.00425
563784.00	4151137.00	0.00556	563834.00	4151137.00	0.00761
563884.00	4151137.00	0.01104	563934.00	4151137.00	0.01736
563984.00	4151137.00	0.03097	564034.00	4151137.00	0.06903
564084.00	4151137.00	0.21669	564234.00	4151137.00	0.20948
564284.00	4151137.00	0.08516	564334.00	4151137.00	0.04599
564384.00	4151137.00	0.02884	564434.00	4151137.00	0.01979
564484.00	4151137.00	0.01443	564534.00	4151137.00	0.01099
564584.00	4151137.00	0.00866	564634.00	4151137.00	0.00699
564684.00	4151137.00	0.00577			

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563684.00    4151187.00        0.00329
         563734.00    4151187.00        0.00414
563784.00    4151187.00        0.00539
         563834.00    4151187.00        0.00733
563884.00    4151187.00        0.01051
         563934.00    4151187.00        0.01628
563984.00    4151187.00        0.02829
         564034.00    4151187.00        0.06007
564084.00    4151187.00        0.18020
         564234.00    4151187.00        0.15448
564284.00    4151187.00        0.06742
         564334.00    4151187.00        0.03816
564384.00    4151187.00        0.02468
         564434.00    4151187.00        0.01730
564484.00    4151187.00        0.01281
         564534.00    4151187.00        0.00987
564584.00    4151187.00        0.00785
         564634.00    4151187.00        0.00639
564684.00    4151187.00        0.00530
         563684.00    4151237.00        0.00306
563734.00    4151237.00        0.00381
         563784.00    4151237.00        0.00488
563834.00    4151237.00        0.00649
         563884.00    4151237.00        0.00903
563934.00    4151237.00        0.01333
         563984.00    4151237.00        0.02129
564034.00    4151237.00        0.03757
         564084.00    4151237.00        0.07321
564134.00    4151237.00        0.14055
         564234.00    4151237.00        0.05872
564284.00    4151237.00        0.03402
         564334.00    4151237.00        0.02293
564384.00    4151237.00        0.01660
         564434.00    4151237.00        0.01257
564484.00    4151237.00        0.00983
         564534.00    4151237.00        0.00789
564584.00    4151237.00        0.00646
         564634.00    4151237.00        0.00538
564684.00    4151237.00        0.00455
         563684.00    4151287.00        0.00274
563734.00    4151287.00        0.00336
         563784.00    4151287.00        0.00422
563834.00    4151287.00        0.00546
         563884.00    4151287.00        0.00731
563934.00    4151287.00        0.01016
         563984.00    4151287.00        0.01456
564034.00    4151287.00        0.02084
         564084.00    4151287.00        0.02775
564134.00    4151287.00        0.02915
         564184.00    4151287.00        0.02037
564234.00    4151287.00        0.01576
         564284.00    4151287.00        0.01305
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564334.00 4151287.00 0.01092

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564384.00	4151287.00	0.00919	564434.00	4151287.00	0.00777
564484.00	4151287.00	0.00660	564534.00	4151287.00	0.00563
564584.00	4151287.00	0.00484	564634.00	4151287.00	0.00419
564684.00	4151287.00	0.00365	563684.00	4151337.00	0.00243
563734.00	4151337.00	0.00293	563784.00	4151337.00	0.00361
563834.00	4151337.00	0.00455	563884.00	4151337.00	0.00586
563934.00	4151337.00	0.00763	563984.00	4151337.00	0.00980
564034.00	4151337.00	0.01181	564084.00	4151337.00	0.01254
564134.00	4151337.00	0.01116	564184.00	4151337.00	0.00905
564234.00	4151337.00	0.00724	564284.00	4151337.00	0.00603
564334.00	4151337.00	0.00534	564384.00	4151337.00	0.00487
564434.00	4151337.00	0.00448	564484.00	4151337.00	0.00410
564534.00	4151337.00	0.00373	564584.00	4151337.00	0.00338
564634.00	4151337.00	0.00306			

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564684.00    4151337.00        0.00276
         563684.00    4151387.00        0.00216
563734.00    4151387.00        0.00257
         563784.00    4151387.00        0.00311
563834.00    4151387.00        0.00381
         563884.00    4151387.00        0.00470
563934.00    4151387.00        0.00571
         563984.00    4151387.00        0.00662
564034.00    4151387.00        0.00706
         564084.00    4151387.00        0.00678
564134.00    4151387.00        0.00604
         564184.00    4151387.00        0.00526
564234.00    4151387.00        0.00447
         564284.00    4151387.00        0.00375
564334.00    4151387.00        0.00323
         564384.00    4151387.00        0.00290
564434.00    4151387.00        0.00270
         564484.00    4151387.00        0.00256
564534.00    4151387.00        0.00242
         564584.00    4151387.00        0.00229
564634.00    4151387.00        0.00216
         564684.00    4151387.00        0.00202
563684.00    4151437.00        0.00193
         563734.00    4151437.00        0.00227
563784.00    4151437.00        0.00269
         563834.00    4151437.00        0.00320
563884.00    4151437.00        0.00376
         563934.00    4151437.00        0.00426
563984.00    4151437.00        0.00455
         564034.00    4151437.00        0.00451
564084.00    4151437.00        0.00421
         564134.00    4151437.00        0.00384
564184.00    4151437.00        0.00348
         564234.00    4151437.00        0.00308
564284.00    4151437.00        0.00267
         564334.00    4151437.00        0.00229
564384.00    4151437.00        0.00201
         564434.00    4151437.00        0.00183
564484.00    4151437.00        0.00171
         564534.00    4151437.00        0.00163
564584.00    4151437.00        0.00157
         564634.00    4151437.00        0.00152
564684.00    4151437.00        0.00146
         563684.00    4151487.00        0.00174
563734.00    4151487.00        0.00201
         563784.00    4151487.00        0.00233
563834.00    4151487.00        0.00267
         563884.00    4151487.00        0.00298
563934.00    4151487.00        0.00317
         563984.00    4151487.00        0.00321
564034.00    4151487.00        0.00308
         564084.00    4151487.00        0.00288
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564134.00 4151487.00 0.00268

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564184.00	4151487.00	0.00248	564234.00	4151487.00	0.00226
564284.00	4151487.00	0.00201	564334.00	4151487.00	0.00176
564384.00	4151487.00	0.00155	564434.00	4151487.00	0.00138
564484.00	4151487.00	0.00126	564534.00	4151487.00	0.00118
564584.00	4151487.00	0.00113	564634.00	4151487.00	0.00109
564684.00	4151487.00	0.00106	563684.00	4151537.00	0.00157
563734.00	4151537.00	0.00178	563784.00	4151537.00	0.00200
563834.00	4151537.00	0.00221	563884.00	4151537.00	0.00235
563934.00	4151537.00	0.00240	563984.00	4151537.00	0.00235
564034.00	4151537.00	0.00224	564084.00	4151537.00	0.00211
564134.00	4151537.00	0.00199	564184.00	4151537.00	0.00187
564234.00	4151537.00	0.00173	564284.00	4151537.00	0.00158
564334.00	4151537.00	0.00141	564384.00	4151537.00	0.00125
564434.00	4151537.00	0.00111			

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564484.00    4151537.00        0.00100
         564534.00    4151537.00        0.00092
564584.00    4151537.00        0.00087
         564634.00    4151537.00        0.00083
564684.00    4151537.00        0.00080
         563684.00    4151587.00        0.00141
563734.00    4151587.00        0.00157
         563784.00    4151587.00        0.00171
563834.00    4151587.00        0.00181
         563884.00    4151587.00        0.00186
563934.00    4151587.00        0.00184
         563984.00    4151587.00        0.00178
564034.00    4151587.00        0.00170
         564084.00    4151587.00        0.00161
564134.00    4151587.00        0.00154
         564184.00    4151587.00        0.00146
564234.00    4151587.00        0.00137
         564284.00    4151587.00        0.00127
564334.00    4151587.00        0.00116
         564384.00    4151587.00        0.00104
564434.00    4151587.00        0.00093
         564484.00    4151587.00        0.00084
564534.00    4151587.00        0.00076
         564584.00    4151587.00        0.00070
564634.00    4151587.00        0.00066
         564684.00    4151587.00        0.00064
563684.00    4151637.00        0.00126
         563734.00    4151637.00        0.00136
563784.00    4151637.00        0.00144
         563834.00    4151637.00        0.00149
563884.00    4151637.00        0.00149
         563934.00    4151637.00        0.00145
563984.00    4151637.00        0.00140
         564034.00    4151637.00        0.00134
564084.00    4151637.00        0.00128
         564134.00    4151637.00        0.00123
564184.00    4151637.00        0.00118
         564234.00    4151637.00        0.00112
564284.00    4151637.00        0.00104
         564334.00    4151637.00        0.00096
564384.00    4151637.00        0.00088
         564434.00    4151637.00        0.00080
564484.00    4151637.00        0.00072
         564534.00    4151637.00        0.00065
564584.00    4151637.00        0.00060
         564634.00    4151637.00        0.00056
564684.00    4151637.00        0.00053
         563684.00    4151687.00        0.00112
563734.00    4151687.00        0.00118
         563784.00    4151687.00        0.00122
563834.00    4151687.00        0.00123
         563884.00    4151687.00        0.00121
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563934.00 4151687.00 0.00117

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
563984.00	4151687.00	0.00113	564034.00	4151687.00	0.00108
564084.00	4151687.00	0.00105	564134.00	4151687.00	0.00101
564184.00	4151687.00	0.00097	564234.00	4151687.00	0.00093
564284.00	4151687.00	0.00088	564334.00	4151687.00	0.00082
564384.00	4151687.00	0.00076	564434.00	4151687.00	0.00069
564484.00	4151687.00	0.00063	564534.00	4151687.00	0.00057
564584.00	4151687.00	0.00052	564634.00	4151687.00	0.00048
564684.00	4151687.00	0.00045	564024.00	4150977.00	0.01738
564034.00	4150977.00	0.01839	564044.00	4150977.00	0.01947
564054.00	4150977.00	0.02066	564064.00	4150977.00	0.02196
564074.00	4150977.00	0.02341	564084.00	4150977.00	0.02503
564094.00	4150977.00	0.02685	564104.00	4150977.00	0.02888
564114.00	4150977.00	0.03111	564124.00	4150977.00	0.03350
564134.00	4150977.00	0.03600			

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564144.00    4150977.00        0.03851
         564024.00    4150987.00        0.01892
564034.00    4150987.00        0.02009
         564044.00    4150987.00        0.02135
564054.00    4150987.00        0.02272
         564064.00    4150987.00        0.02423
564074.00    4150987.00        0.02591
         564084.00    4150987.00        0.02779
564094.00    4150987.00        0.02990
         564104.00    4150987.00        0.03226
564114.00    4150987.00        0.03486
         564124.00    4150987.00        0.03766
564134.00    4150987.00        0.04058
         564144.00    4150987.00        0.04350
564024.00    4150997.00        0.02064
         564034.00    4150997.00        0.02201
564044.00    4150997.00        0.02349
         564054.00    4150997.00        0.02510
564064.00    4150997.00        0.02687
         564074.00    4150997.00        0.02884
564084.00    4150997.00        0.03105
         564094.00    4150997.00        0.03352
564104.00    4150997.00        0.03630
         564114.00    4150997.00        0.03936
564124.00    4150997.00        0.04266
         564134.00    4150997.00        0.04610
564144.00    4150997.00        0.04953
         564024.00    4151007.00        0.02256
564034.00    4151007.00        0.02418
         564044.00    4151007.00        0.02594
564054.00    4151007.00        0.02785
         564064.00    4151007.00        0.02996
564074.00    4151007.00        0.03230
         564084.00    4151007.00        0.03492
564094.00    4151007.00        0.03786
         564104.00    4151007.00        0.04116
564114.00    4151007.00        0.04481
         564124.00    4151007.00        0.04875
564134.00    4151007.00        0.05286
         564144.00    4151007.00        0.05692
564024.00    4151017.00        0.02469
         564034.00    4151017.00        0.02663
564044.00    4151017.00        0.02873
         564054.00    4151017.00        0.03103
564064.00    4151017.00        0.03357
         564074.00    4151017.00        0.03639
564084.00    4151017.00        0.03956
         564094.00    4151017.00        0.04312
564104.00    4151017.00        0.04711
         564114.00    4151017.00        0.05152
564124.00    4151017.00        0.05629
         564134.00    4151017.00        0.06125
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564144.00 4151017.00 0.06612

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564024.00	4151027.00	0.02704	564034.00	4151027.00	0.02937
564044.00	4151027.00	0.03191	564054.00	4151027.00	0.03471
564064.00	4151027.00	0.03781	564074.00	4151027.00	0.04127
564084.00	4151027.00	0.04517	564094.00	4151027.00	0.04955
564104.00	4151027.00	0.05447	564114.00	4151027.00	0.05992
564124.00	4151027.00	0.06578	564134.00	4151027.00	0.07186
564144.00	4151027.00	0.07778	564024.00	4151037.00	0.02962
564034.00	4151037.00	0.03242	564044.00	4151037.00	0.03552
564054.00	4151037.00	0.03896	564064.00	4151037.00	0.04280
564074.00	4151037.00	0.04712	564084.00	4151037.00	0.05201
564094.00	4151037.00	0.05754	564104.00	4151037.00	0.06374
564114.00	4151037.00	0.07060	564124.00	4151037.00	0.07797
564134.00	4151037.00	0.08555	564144.00	4151037.00	0.09284
564024.00	4151047.00	0.03243			

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564034.00    4151047.00        0.03581
         564044.00    4151047.00        0.03959
564054.00    4151047.00        0.04385
         564064.00    4151047.00        0.04866
564074.00    4151047.00        0.05413
         564084.00    4151047.00        0.06039
564094.00    4151047.00        0.06753
         564104.00    4151047.00        0.07559
564114.00    4151047.00        0.08447
         564124.00    4151047.00        0.09397
564134.00    4151047.00        0.10364
         564144.00    4151047.00        0.11277
564024.00    4151057.00        0.03546
         564034.00    4151057.00        0.03953
564044.00    4151057.00        0.04416
         564054.00    4151057.00        0.04944
564064.00    4151057.00        0.05551
         564074.00    4151057.00        0.06253
564084.00    4151057.00        0.07070
         564094.00    4151057.00        0.08015
564104.00    4151057.00        0.09091
         564114.00    4151057.00        0.10281
564124.00    4151057.00        0.11545
         564134.00    4151057.00        0.12809
564144.00    4151057.00        0.13971
         564024.00    4151067.00        0.03867
564034.00    4151067.00        0.04356
         564044.00    4151067.00        0.04922
564054.00    4151067.00        0.05579
         564064.00    4151067.00        0.06348
564074.00    4151067.00        0.07255
         564084.00    4151067.00        0.08335
564094.00    4151067.00        0.09613
         564104.00    4151067.00        0.11093
564114.00    4151067.00        0.12739
         564124.00    4151067.00        0.14476
564134.00    4151067.00        0.16174
         564144.00    4151067.00        0.17664
564107.97    4151217.98        0.16036
         564126.88    4151212.46        0.22767
564146.59    4151252.73        0.08095
         564179.25    4151251.60        0.06349
564210.51    4151177.54        0.27127
         564208.82    4151145.16        0.33699
564183.19    4151110.24        0.37530
         564162.92    4151096.45        0.34400
564148.56    4151092.79        0.32117
         564126.03    4151098.98        0.30285
564088.27    4151128.81        0.22297
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564114.01	4151261.20	0.00000	564135.61	4151266.04	0.00000
564119.54	4151293.69	0.00000	564130.77	4151312.01	0.00000
564163.09	4151305.62	0.00000	564177.44	4151299.74	0.00000
564196.97	4151291.79	0.00000	564210.10	4151280.21	0.00000
564220.30	4151264.14	0.00000	564227.90	4151247.38	0.00000
564238.45	4151230.27	0.00000	564240.80	4151212.56	0.00000
564248.22	4151198.20	0.00000	564256.35	4151175.24	0.00000
564269.75	4151162.08	0.00000	564286.49	4151151.08	0.00000
564308.10	4151135.11	0.00000	564329.77	4151126.39	0.00000
564243.38	4151128.82	0.00000	564191.23	4151093.66	0.00001
564176.16	4151074.52	0.00002			

```
564232.45    4151110.30        0.00000
         564235.20    4151074.64        0.00001
564247.20    4151064.67        0.00001
         564261.03    4151054.91        0.00001
564279.33    4151048.00        0.00001
         564092.05    4151261.51        0.00000
564077.80    4151271.65        0.00000
         564075.89    4151298.68        0.00000
564092.20    4151320.13        0.00000
         564079.00    4151329.27        0.00000
564064.02    4151340.14        0.00000
         564053.40    4151343.64        0.00000
564038.54    4151353.00        0.00000
         564026.30    4151362.62        0.00000
564014.58    4151371.30        0.00000
         564004.15    4151384.96        0.00000
563986.52    4151397.01        0.00000
         563975.05    4151409.36        0.00000
563812.99    4151377.74        0.00000
         563786.51    4151378.74        0.00000
563747.29    4151364.63        0.00000
         563732.55    4151348.64        0.00000
564252.63    4151299.36        0.00000
         564270.08    4151278.80        0.00000
564280.78    4151263.04        0.00000
         564299.64    4151254.31        0.00000
564320.76    4151241.36        0.00000
         564338.49    4151199.69        0.00000
564223.05    4151086.47        0.00001
         564223.05    4151100.23        0.00001
564207.53    4151007.19        0.00005
         564220.50    4150997.85        0.00005
564231.22    4150986.27        0.00005
         564270.64    4151004.25        0.00002
564293.29    4151001.31        0.00002
         564316.46    4150997.68        0.00001
564190.93    4150987.82        0.00003
         564158.55    4151084.80        0.00003
563684.00    4150687.00        0.00000
         563734.00    4150687.00        0.00000
563784.00    4150687.00        0.00000
         563834.00    4150687.00        0.00000
563884.00    4150687.00        0.00000
         563934.00    4150687.00        0.00000
563984.00    4150687.00        0.00000
         564034.00    4150687.00        0.00000
564084.00    4150687.00        0.00000
         564134.00    4150687.00        0.00000
564184.00    4150687.00        0.00000
         564234.00    4150687.00        0.00000
564284.00    4150687.00        0.00000
         564334.00    4150687.00        0.00000
```

```
564384.00    4150687.00        0.00001
         564434.00    4150687.00        0.00001
564484.00    4150687.00        0.00000
         564534.00    4150687.00        0.00000
564584.00    4150687.00        0.00000
         564634.00    4150687.00        0.00000
564684.00    4150687.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
563684.00	4150737.00	0.00000	563734.00	4150737.00	0.00000
563784.00	4150737.00	0.00000	563834.00	4150737.00	0.00000
563884.00	4150737.00	0.00000	563934.00	4150737.00	0.00000
563984.00	4150737.00	0.00000	564034.00	4150737.00	0.00000
564084.00	4150737.00	0.00000	564134.00	4150737.00	0.00000
564184.00	4150737.00	0.00000	564234.00	4150737.00	0.00000
564284.00	4150737.00	0.00001	564334.00	4150737.00	0.00001
564384.00	4150737.00	0.00001	564434.00	4150737.00	0.00001
564484.00	4150737.00	0.00001	564534.00	4150737.00	0.00001
564584.00	4150737.00	0.00000	564634.00	4150737.00	0.00000
564684.00	4150737.00	0.00000			

```
563684.00    4150787.00        0.00000
         563734.00    4150787.00        0.00000
563784.00    4150787.00        0.00000
         563834.00    4150787.00        0.00000
563884.00    4150787.00        0.00000
         563934.00    4150787.00        0.00000
563984.00    4150787.00        0.00000
         564034.00    4150787.00        0.00000
564084.00    4150787.00        0.00000
         564134.00    4150787.00        0.00000
564184.00    4150787.00        0.00000
         564234.00    4150787.00        0.00001
564284.00    4150787.00        0.00001
         564334.00    4150787.00        0.00002
564384.00    4150787.00        0.00002
         564434.00    4150787.00        0.00002
564484.00    4150787.00        0.00001
         564534.00    4150787.00        0.00001
564584.00    4150787.00        0.00000
         564634.00    4150787.00        0.00000
564684.00    4150787.00        0.00000
         563684.00    4150837.00        0.00000
563734.00    4150837.00        0.00000
         563784.00    4150837.00        0.00000
563834.00    4150837.00        0.00000
         563884.00    4150837.00        0.00000
563934.00    4150837.00        0.00000
         563984.00    4150837.00        0.00000
564034.00    4150837.00        0.00000
         564084.00    4150837.00        0.00000
564134.00    4150837.00        0.00000
         564184.00    4150837.00        0.00001
564234.00    4150837.00        0.00001
         564284.00    4150837.00        0.00003
564334.00    4150837.00        0.00006
         564384.00    4150837.00        0.00006
564434.00    4150837.00        0.00005
         564484.00    4150837.00        0.00003
564534.00    4150837.00        0.00001
         564584.00    4150837.00        0.00000
564634.00    4150837.00        0.00000
         564684.00    4150837.00        0.00000
563684.00    4150887.00        0.00000
         563734.00    4150887.00        0.00000
563784.00    4150887.00        0.00000
         563834.00    4150887.00        0.00000
563884.00    4150887.00        0.00000
         563934.00    4150887.00        0.00000
563984.00    4150887.00        0.00000
         564034.00    4150887.00        0.00000
564084.00    4150887.00        0.00000
         564134.00    4150887.00        0.00000
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```
564184.00    4150887.00        0.00001
         564234.00    4150887.00        0.00002
564284.00    4150887.00        0.00005
         564334.00    4150887.00        0.00003
564384.00    4150887.00        0.00002
         564434.00    4150887.00        0.00001
564484.00    4150887.00        0.00001
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564534.00	4150887.00	0.00001	564584.00	4150887.00	0.00000
564634.00	4150887.00	0.00000	564684.00	4150887.00	0.00000
563684.00	4150937.00	0.00000	563734.00	4150937.00	0.00000
563784.00	4150937.00	0.00000	563834.00	4150937.00	0.00000
563884.00	4150937.00	0.00000	563934.00	4150937.00	0.00000
563984.00	4150937.00	0.00000	564034.00	4150937.00	0.00000
564084.00	4150937.00	0.00000	564134.00	4150937.00	0.00001
564184.00	4150937.00	0.00001	564234.00	4150937.00	0.00002
564284.00	4150937.00	0.00005	564334.00	4150937.00	0.00002
564384.00	4150937.00	0.00001	564434.00	4150937.00	0.00001
564484.00	4150937.00	0.00000			

```
564534.00    4150937.00        0.00000
         564584.00    4150937.00        0.00000
564634.00    4150937.00        0.00000
         564684.00    4150937.00        0.00000
563684.00    4150987.00        0.00000
         563734.00    4150987.00        0.00000
563784.00    4150987.00        0.00000
         563834.00    4150987.00        0.00000
563884.00    4150987.00        0.00000
         563934.00    4150987.00        0.00000
563984.00    4150987.00        0.00000
         564034.00    4150987.00        0.00000
564084.00    4150987.00        0.00001
         564134.00    4150987.00        0.00001
564184.00    4150987.00        0.00002
         564234.00    4150987.00        0.00005
564284.00    4150987.00        0.00002
         564334.00    4150987.00        0.00001
564384.00    4150987.00        0.00001
         564434.00    4150987.00        0.00000
564484.00    4150987.00        0.00000
         564534.00    4150987.00        0.00000
564584.00    4150987.00        0.00000
         564634.00    4150987.00        0.00000
564684.00    4150987.00        0.00000
         563684.00    4151037.00        0.00000
563734.00    4151037.00        0.00000
         563784.00    4151037.00        0.00000
563834.00    4151037.00        0.00000
         563884.00    4151037.00        0.00000
563934.00    4151037.00        0.00000
         563984.00    4151037.00        0.00000
564034.00    4151037.00        0.00000
         564084.00    4151037.00        0.00001
564134.00    4151037.00        0.00003
         564184.00    4151037.00        0.00005
564234.00    4151037.00        0.00002
         564284.00    4151037.00        0.00001
564334.00    4151037.00        0.00001
         564384.00    4151037.00        0.00000
564434.00    4151037.00        0.00000
         564484.00    4151037.00        0.00000
564534.00    4151037.00        0.00000
         564584.00    4151037.00        0.00000
564634.00    4151037.00        0.00000
         564684.00    4151037.00        0.00000
563684.00    4151087.00        0.00000
         563734.00    4151087.00        0.00000
563784.00    4151087.00        0.00000
         563834.00    4151087.00        0.00000
563884.00    4151087.00        0.00000
         563934.00    4151087.00        0.00000
```

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563984.00    4151087.00        0.00000
         564034.00    4151087.00        0.00000
564084.00    4151087.00        0.00001
         564134.00    4151087.00        0.00003
564184.00    4151087.00        0.00001
         564234.00    4151087.00        0.00001
564284.00    4151087.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF *** INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564334.00	4151087.00	0.00000	564384.00	4151087.00	0.00000
564434.00	4151087.00	0.00000	564484.00	4151087.00	0.00000
564534.00	4151087.00	0.00000	564584.00	4151087.00	0.00000
564634.00	4151087.00	0.00000	564684.00	4151087.00	0.00000
563684.00	4151137.00	0.00000	563734.00	4151137.00	0.00000
563784.00	4151137.00	0.00000	563834.00	4151137.00	0.00000
563884.00	4151137.00	0.00000	563934.00	4151137.00	0.00000
563984.00	4151137.00	0.00000	564034.00	4151137.00	0.00000
564084.00	4151137.00	0.00000	564234.00	4151137.00	0.00000
564284.00	4151137.00	0.00000	564334.00	4151137.00	0.00000
564384.00	4151137.00	0.00000			

```
564434.00    4151137.00        0.00000
         564484.00    4151137.00        0.00000
564534.00    4151137.00        0.00000
         564584.00    4151137.00        0.00000
564634.00    4151137.00        0.00000
         564684.00    4151137.00        0.00000
563684.00    4151187.00        0.00000
         563734.00    4151187.00        0.00000
563784.00    4151187.00        0.00000
         563834.00    4151187.00        0.00000
563884.00    4151187.00        0.00000
         563934.00    4151187.00        0.00000
563984.00    4151187.00        0.00000
         564034.00    4151187.00        0.00000
564084.00    4151187.00        0.00000
         564234.00    4151187.00        0.00000
564284.00    4151187.00        0.00000
         564334.00    4151187.00        0.00000
564384.00    4151187.00        0.00000
         564434.00    4151187.00        0.00000
564484.00    4151187.00        0.00000
         564534.00    4151187.00        0.00000
564584.00    4151187.00        0.00000
         564634.00    4151187.00        0.00000
564684.00    4151187.00        0.00000
         563684.00    4151237.00        0.00000
563734.00    4151237.00        0.00000
         563784.00    4151237.00        0.00000
563834.00    4151237.00        0.00000
         563884.00    4151237.00        0.00000
563934.00    4151237.00        0.00000
         563984.00    4151237.00        0.00000
564034.00    4151237.00        0.00000
         564084.00    4151237.00        0.00000
564134.00    4151237.00        0.00000
         564234.00    4151237.00        0.00000
564284.00    4151237.00        0.00000
         564334.00    4151237.00        0.00000
564384.00    4151237.00        0.00000
         564434.00    4151237.00        0.00000
564484.00    4151237.00        0.00000
         564534.00    4151237.00        0.00000
564584.00    4151237.00        0.00000
         564634.00    4151237.00        0.00000
564684.00    4151237.00        0.00000
         563684.00    4151287.00        0.00000
563734.00    4151287.00        0.00000
         563784.00    4151287.00        0.00000
563834.00    4151287.00        0.00000
         563884.00    4151287.00        0.00000
563934.00    4151287.00        0.00000
         563984.00    4151287.00        0.00000
```

```
564034.00    4151287.00        0.00000
         564084.00    4151287.00        0.00000
564134.00    4151287.00        0.00000
         564184.00    4151287.00        0.00000
564234.00    4151287.00        0.00000
         564284.00    4151287.00        0.00000
564334.00    4151287.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF *** INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564384.00	4151287.00	0.00000	564434.00	4151287.00	0.00000
564484.00	4151287.00	0.00000	564534.00	4151287.00	0.00000
564584.00	4151287.00	0.00000	564634.00	4151287.00	0.00000
564684.00	4151287.00	0.00000	563684.00	4151337.00	0.00000
563734.00	4151337.00	0.00000	563784.00	4151337.00	0.00000
563834.00	4151337.00	0.00000	563884.00	4151337.00	0.00000
563934.00	4151337.00	0.00000	563984.00	4151337.00	0.00000
564034.00	4151337.00	0.00000	564084.00	4151337.00	0.00000
564134.00	4151337.00	0.00000	564184.00	4151337.00	0.00000
564234.00	4151337.00	0.00000	564284.00	4151337.00	0.00000
564334.00	4151337.00	0.00000			

```
564384.00    4151337.00        0.00000
         564434.00    4151337.00        0.00000
564484.00    4151337.00        0.00000
         564534.00    4151337.00        0.00000
564584.00    4151337.00        0.00000
         564634.00    4151337.00        0.00000
564684.00    4151337.00        0.00000
         563684.00    4151387.00        0.00000
563734.00    4151387.00        0.00000
         563784.00    4151387.00        0.00000
563834.00    4151387.00        0.00000
         563884.00    4151387.00        0.00000
563934.00    4151387.00        0.00000
         563984.00    4151387.00        0.00000
564034.00    4151387.00        0.00000
         564084.00    4151387.00        0.00000
564134.00    4151387.00        0.00000
         564184.00    4151387.00        0.00000
564234.00    4151387.00        0.00000
         564284.00    4151387.00        0.00000
564334.00    4151387.00        0.00000
         564384.00    4151387.00        0.00000
564434.00    4151387.00        0.00000
         564484.00    4151387.00        0.00000
564534.00    4151387.00        0.00000
         564584.00    4151387.00        0.00000
564634.00    4151387.00        0.00000
         564684.00    4151387.00        0.00000
563684.00    4151437.00        0.00000
         563734.00    4151437.00        0.00000
563784.00    4151437.00        0.00000
         563834.00    4151437.00        0.00000
563884.00    4151437.00        0.00000
         563934.00    4151437.00        0.00000
563984.00    4151437.00        0.00000
         564034.00    4151437.00        0.00000
564084.00    4151437.00        0.00000
         564134.00    4151437.00        0.00000
564184.00    4151437.00        0.00000
         564234.00    4151437.00        0.00000
564284.00    4151437.00        0.00000
         564334.00    4151437.00        0.00000
564384.00    4151437.00        0.00000
         564434.00    4151437.00        0.00000
564484.00    4151437.00        0.00000
         564534.00    4151437.00        0.00000
564584.00    4151437.00        0.00000
         564634.00    4151437.00        0.00000
564684.00    4151437.00        0.00000
         563684.00    4151487.00        0.00000
563734.00    4151487.00        0.00000
         563784.00    4151487.00        0.00000
```

```
563834.00    4151487.00        0.00000
         563884.00    4151487.00        0.00000
563934.00    4151487.00        0.00000
         563984.00    4151487.00        0.00000
564034.00    4151487.00        0.00000
         564084.00    4151487.00        0.00000
564134.00    4151487.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564184.00	4151487.00	0.00000	564234.00	4151487.00	0.00000
564284.00	4151487.00	0.00000	564334.00	4151487.00	0.00000
564384.00	4151487.00	0.00000	564434.00	4151487.00	0.00000
564484.00	4151487.00	0.00000	564534.00	4151487.00	0.00000
564584.00	4151487.00	0.00000	564634.00	4151487.00	0.00000
564684.00	4151487.00	0.00000	563684.00	4151537.00	0.00000
563734.00	4151537.00	0.00000	563784.00	4151537.00	0.00000
563834.00	4151537.00	0.00000	563884.00	4151537.00	0.00000
563934.00	4151537.00	0.00000	563984.00	4151537.00	0.00000
564034.00	4151537.00	0.00000	564084.00	4151537.00	0.00000
564134.00	4151537.00	0.00000			

```
564184.00    4151537.00        0.00000
         564234.00    4151537.00        0.00000
564284.00    4151537.00        0.00000
         564334.00    4151537.00        0.00000
564384.00    4151537.00        0.00000
         564434.00    4151537.00        0.00000
564484.00    4151537.00        0.00000
         564534.00    4151537.00        0.00000
564584.00    4151537.00        0.00000
         564634.00    4151537.00        0.00000
564684.00    4151537.00        0.00000
         563684.00    4151587.00        0.00000
563734.00    4151587.00        0.00000
         563784.00    4151587.00        0.00000
563834.00    4151587.00        0.00000
         563884.00    4151587.00        0.00000
563934.00    4151587.00        0.00000
         563984.00    4151587.00        0.00000
564034.00    4151587.00        0.00000
         564084.00    4151587.00        0.00000
564134.00    4151587.00        0.00000
         564184.00    4151587.00        0.00000
564234.00    4151587.00        0.00000
         564284.00    4151587.00        0.00000
564334.00    4151587.00        0.00000
         564384.00    4151587.00        0.00000
564434.00    4151587.00        0.00000
         564484.00    4151587.00        0.00000
564534.00    4151587.00        0.00000
         564584.00    4151587.00        0.00000
564634.00    4151587.00        0.00000
         564684.00    4151587.00        0.00000
563684.00    4151637.00        0.00000
         563734.00    4151637.00        0.00000
563784.00    4151637.00        0.00000
         563834.00    4151637.00        0.00000
563884.00    4151637.00        0.00000
         563934.00    4151637.00        0.00000
563984.00    4151637.00        0.00000
         564034.00    4151637.00        0.00000
564084.00    4151637.00        0.00000
         564134.00    4151637.00        0.00000
564184.00    4151637.00        0.00000
         564234.00    4151637.00        0.00000
564284.00    4151637.00        0.00000
         564334.00    4151637.00        0.00000
564384.00    4151637.00        0.00000
         564434.00    4151637.00        0.00000
564484.00    4151637.00        0.00000
         564534.00    4151637.00        0.00000
564584.00    4151637.00        0.00000
         564634.00    4151637.00        0.00000
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```
564684.00    4151637.00        0.00000
         563684.00    4151687.00        0.00000
563734.00    4151687.00        0.00000
         563784.00    4151687.00        0.00000
563834.00    4151687.00        0.00000
         563884.00    4151687.00        0.00000
563934.00    4151687.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
563984.00	4151687.00	0.00000	564034.00	4151687.00	0.00000
564084.00	4151687.00	0.00000	564134.00	4151687.00	0.00000
564184.00	4151687.00	0.00000	564234.00	4151687.00	0.00000
564284.00	4151687.00	0.00000	564334.00	4151687.00	0.00000
564384.00	4151687.00	0.00000	564434.00	4151687.00	0.00000
564484.00	4151687.00	0.00000	564534.00	4151687.00	0.00000
564584.00	4151687.00	0.00000	564634.00	4151687.00	0.00000
564684.00	4151687.00	0.00000	564024.00	4150977.00	0.00000
564034.00	4150977.00	0.00000	564044.00	4150977.00	0.00000
564054.00	4150977.00	0.00000	564064.00	4150977.00	0.00000
564074.00	4150977.00	0.00000			

```
564084.00    4150977.00        0.00001
         564094.00    4150977.00        0.00001
564104.00    4150977.00        0.00001
         564114.00    4150977.00        0.00001
564124.00    4150977.00        0.00001
         564134.00    4150977.00        0.00001
564144.00    4150977.00        0.00001
         564024.00    4150987.00        0.00000
564034.00    4150987.00        0.00000
         564044.00    4150987.00        0.00000
564054.00    4150987.00        0.00000
         564064.00    4150987.00        0.00000
564074.00    4150987.00        0.00000
         564084.00    4150987.00        0.00001
564094.00    4150987.00        0.00001
         564104.00    4150987.00        0.00001
564114.00    4150987.00        0.00001
         564124.00    4150987.00        0.00001
564134.00    4150987.00        0.00001
         564144.00    4150987.00        0.00001
564024.00    4150997.00        0.00000
         564034.00    4150997.00        0.00000
564044.00    4150997.00        0.00000
         564054.00    4150997.00        0.00000
564064.00    4150997.00        0.00000
         564074.00    4150997.00        0.00001
564084.00    4150997.00        0.00001
         564094.00    4150997.00        0.00001
564104.00    4150997.00        0.00001
         564114.00    4150997.00        0.00001
564124.00    4150997.00        0.00001
         564134.00    4150997.00        0.00001
564144.00    4150997.00        0.00001
         564024.00    4151007.00        0.00000
564034.00    4151007.00        0.00000
         564044.00    4151007.00        0.00000
564054.00    4151007.00        0.00000
         564064.00    4151007.00        0.00000
564074.00    4151007.00        0.00001
         564084.00    4151007.00        0.00001
564094.00    4151007.00        0.00001
         564104.00    4151007.00        0.00001
564114.00    4151007.00        0.00001
         564124.00    4151007.00        0.00001
564134.00    4151007.00        0.00001
         564144.00    4151007.00        0.00002
564024.00    4151017.00        0.00000
         564034.00    4151017.00        0.00000
564044.00    4151017.00        0.00000
         564054.00    4151017.00        0.00000
564064.00    4151017.00        0.00001
         564074.00    4151017.00        0.00001
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```
564084.00    4151017.00        0.00001
         564094.00    4151017.00        0.00001
564104.00    4151017.00        0.00001
         564114.00    4151017.00        0.00001
564124.00    4151017.00        0.00001
         564134.00    4151017.00        0.00002
564144.00    4151017.00        0.00002
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564024.00	4151027.00	0.00000	564034.00	4151027.00	0.00000
564044.00	4151027.00	0.00000	564054.00	4151027.00	0.00000
564064.00	4151027.00	0.00001	564074.00	4151027.00	0.00001
564084.00	4151027.00	0.00001	564094.00	4151027.00	0.00001
564104.00	4151027.00	0.00001	564114.00	4151027.00	0.00001
564124.00	4151027.00	0.00002	564134.00	4151027.00	0.00002
564144.00	4151027.00	0.00003	564024.00	4151037.00	0.00000
564034.00	4151037.00	0.00000	564044.00	4151037.00	0.00000
564054.00	4151037.00	0.00000	564064.00	4151037.00	0.00001
564074.00	4151037.00	0.00001	564084.00	4151037.00	0.00001
564094.00	4151037.00	0.00001			

564104.00 4151037.00 0.00001
564114.00 4151037.00 0.00002
564124.00 4151037.00 0.00002
564134.00 4151037.00 0.00003
564144.00 4151037.00 0.00003
564024.00 4151047.00 0.00000
564034.00 4151047.00 0.00000
564044.00 4151047.00 0.00000
564054.00 4151047.00 0.00001
564064.00 4151047.00 0.00001
564074.00 4151047.00 0.00001
564084.00 4151047.00 0.00001
564094.00 4151047.00 0.00001
564104.00 4151047.00 0.00001
564114.00 4151047.00 0.00002
564124.00 4151047.00 0.00002
564134.00 4151047.00 0.00003
564144.00 4151047.00 0.00004
564024.00 4151057.00 0.00000
564034.00 4151057.00 0.00000
564044.00 4151057.00 0.00000
564054.00 4151057.00 0.00001
564064.00 4151057.00 0.00001
564074.00 4151057.00 0.00001
564084.00 4151057.00 0.00001
564094.00 4151057.00 0.00001
564104.00 4151057.00 0.00002
564114.00 4151057.00 0.00002
564124.00 4151057.00 0.00003
564134.00 4151057.00 0.00004
564144.00 4151057.00 0.00005
564024.00 4151067.00 0.00000
564034.00 4151067.00 0.00000
564044.00 4151067.00 0.00000
564054.00 4151067.00 0.00001
564064.00 4151067.00 0.00001
564074.00 4151067.00 0.00001
564084.00 4151067.00 0.00001
564094.00 4151067.00 0.00001
564104.00 4151067.00 0.00002
564114.00 4151067.00 0.00003
564124.00 4151067.00 0.00003
564134.00 4151067.00 0.00004
564144.00 4151067.00 0.00005
564107.97 4151217.98 0.00000
564126.88 4151212.46 0.00000
564146.59 4151252.73 0.00000
564179.25 4151251.60 0.00000
564210.51 4151177.54 0.00000
564208.82 4151145.16 0.00000
564183.19 4151110.24 0.00001
564162.92 4151096.45 0.00001

564148.56   4151092.79   0.00002
         564126.03   4151098.98   0.00002
564088.27   4151128.81   0.00001

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564114.01	4151261.20	0.02793	564135.61	4151266.04	0.02266
564119.54	4151293.69	0.01352	564130.77	4151312.01	0.00943
564163.09	4151305.62	0.00862	564177.44	4151299.74	0.00861
564196.97	4151291.79	0.00859	564210.10	4151280.21	0.00964
564220.30	4151264.14	0.01280	564227.90	4151247.38	0.01890
564238.45	4151230.27	0.02728	564240.80	4151212.56	0.04048
564248.22	4151198.20	0.04750	564256.35	4151175.24	0.05522
564269.75	4151162.08	0.04842	564286.49	4151151.08	0.03928
564308.10	4151135.11	0.03023			

564329.77 4151126.39 0.02362
564243.38 4151128.82 0.08250
564191.23 4151093.66 0.14856
564176.16 4151074.52 0.10883
564232.45 4151110.30 0.09361
564235.20 4151074.64 0.06214
564247.20 4151064.67 0.04820
564261.03 4151054.91 0.03782
564279.33 4151048.00 0.02977
564092.05 4151261.51 0.02670
564077.80 4151271.65 0.02183
564075.89 4151298.68 0.01439
564092.20 4151320.13 0.01004
564079.00 4151329.27 0.00936
564064.02 4151340.14 0.00868
564053.40 4151343.64 0.00871
564038.54 4151353.00 0.00841
564026.30 4151362.62 0.00813
564014.58 4151371.30 0.00803
564004.15 4151384.96 0.00757
563986.52 4151397.01 0.00776
563975.05 4151409.36 0.00753
563812.99 4151377.74 0.01290
563786.51 4151378.74 0.00866
563747.29 4151364.63 0.00717
563732.55 4151348.64 0.00655
564252.63 4151299.36 0.00591
564270.08 4151278.80 0.00770
564280.78 4151263.04 0.00985
564299.64 4151254.31 0.01049
564320.76 4151241.36 0.01140
564338.49 4151199.69 0.01624
564223.05 4151086.47 0.08534
564223.05 4151100.23 0.10156
564207.53 4151007.19 0.03229
564220.50 4150997.85 0.02815
564231.22 4150986.27 0.02418
564270.64 4151004.25 0.02321
564293.29 4151001.31 0.01947
564316.46 4150997.68 0.01626
564190.93 4150987.82 0.02521
564158.55 4151084.80 0.13236
563684.00 4150687.00 0.00089
563734.00 4150687.00 0.00099
563784.00 4150687.00 0.00109
563834.00 4150687.00 0.00121
563884.00 4150687.00 0.00133
563934.00 4150687.00 0.00148
563984.00 4150687.00 0.00165
564034.00 4150687.00 0.00187
564084.00 4150687.00 0.00217
564134.00 4150687.00 0.00255

```
564184.00    4150687.00        0.00299
         564234.00    4150687.00        0.00338
564284.00    4150687.00        0.00361
         564334.00    4150687.00        0.00361
564384.00    4150687.00        0.00342
         564434.00    4150687.00        0.00312
564484.00    4150687.00        0.00281
         564534.00    4150687.00        0.00252
564584.00    4150687.00        0.00227
         564634.00    4150687.00        0.00205
564684.00    4150687.00        0.00186
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
563684.00	4150737.00	0.00100	563734.00	4150737.00	0.00112
563784.00	4150737.00	0.00126	563834.00	4150737.00	0.00141
563884.00	4150737.00	0.00158	563934.00	4150737.00	0.00176
563984.00	4150737.00	0.00198	564034.00	4150737.00	0.00227
564084.00	4150737.00	0.00266	564134.00	4150737.00	0.00318
564184.00	4150737.00	0.00377	564234.00	4150737.00	0.00427
564284.00	4150737.00	0.00450	564334.00	4150737.00	0.00439
564384.00	4150737.00	0.00404	564434.00	4150737.00	0.00361
564484.00	4150737.00	0.00320			

564534.00 4150737.00 0.00283
564584.00 4150737.00 0.00252
564634.00 4150737.00 0.00226
564684.00 4150737.00 0.00203
563684.00 4150787.00 0.00111
563734.00 4150787.00 0.00127
563784.00 4150787.00 0.00146
563834.00 4150787.00 0.00166
563884.00 4150787.00 0.00189
563934.00 4150787.00 0.00214
563984.00 4150787.00 0.00244
564034.00 4150787.00 0.00282
564084.00 4150787.00 0.00334
564134.00 4150787.00 0.00407
564184.00 4150787.00 0.00490
564234.00 4150787.00 0.00554
564284.00 4150787.00 0.00571
564334.00 4150787.00 0.00540
564384.00 4150787.00 0.00482
564434.00 4150787.00 0.00421
564484.00 4150787.00 0.00366
564534.00 4150787.00 0.00320
564584.00 4150787.00 0.00281
564634.00 4150787.00 0.00249
564684.00 4150787.00 0.00221
563684.00 4150837.00 0.00124
563734.00 4150837.00 0.00144
563784.00 4150837.00 0.00169
563834.00 4150837.00 0.00197
563884.00 4150837.00 0.00230
563934.00 4150837.00 0.00266
563984.00 4150837.00 0.00307
564034.00 4150837.00 0.00359
564084.00 4150837.00 0.00433
564134.00 4150837.00 0.00540
564184.00 4150837.00 0.00661
564234.00 4150837.00 0.00743
564284.00 4150837.00 0.00742
564334.00 4150837.00 0.00672
564384.00 4150837.00 0.00579
564434.00 4150837.00 0.00492
564484.00 4150837.00 0.00420
564534.00 4150837.00 0.00361
564584.00 4150837.00 0.00312
564634.00 4150837.00 0.00272
564684.00 4150837.00 0.00238
563684.00 4150887.00 0.00136
563734.00 4150887.00 0.00162
563784.00 4150887.00 0.00195
563834.00 4150887.00 0.00235
563884.00 4150887.00 0.00282
563934.00 4150887.00 0.00337

```
563984.00    4150887.00        0.00399
         564034.00    4150887.00        0.00475
564084.00    4150887.00        0.00585
         564134.00    4150887.00        0.00751
564184.00    4150887.00        0.00940
         564234.00    4150887.00        0.01039
564284.00    4150887.00        0.00987
         564334.00    4150887.00        0.00847
564384.00    4150887.00        0.00699
         564434.00    4150887.00        0.00577
564484.00    4150887.00        0.00481
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564534.00	4150887.00	0.00405	564584.00	4150887.00	0.00344
564634.00	4150887.00	0.00295	564684.00	4150887.00	0.00255
563684.00	4150937.00	0.00149	563734.00	4150937.00	0.00181
563784.00	4150937.00	0.00222	563834.00	4150937.00	0.00277
563884.00	4150937.00	0.00347	563934.00	4150937.00	0.00433
563984.00	4150937.00	0.00535	564034.00	4150937.00	0.00659
564084.00	4150937.00	0.00835	564134.00	4150937.00	0.01117
564184.00	4150937.00	0.01436	564234.00	4150937.00	0.01532
564284.00	4150937.00	0.01348			

564334.00 4150937.00 0.01077
564384.00 4150937.00 0.00847
564434.00 4150937.00 0.00675
564484.00 4150937.00 0.00547
564534.00 4150937.00 0.00450
564584.00 4150937.00 0.00375
564634.00 4150937.00 0.00317
564684.00 4150937.00 0.00270
563684.00 4150987.00 0.00162
563734.00 4150987.00 0.00200
563784.00 4150987.00 0.00251
563834.00 4150987.00 0.00322
563884.00 4150987.00 0.00421
563934.00 4150987.00 0.00556
563984.00 4150987.00 0.00736
564034.00 4150987.00 0.00971
564084.00 4150987.00 0.01300
564134.00 4150987.00 0.01845
564184.00 4150987.00 0.02453
564234.00 4150987.00 0.02415
564284.00 4150987.00 0.01882
564334.00 4150987.00 0.01375
564384.00 4150987.00 0.01021
564434.00 4150987.00 0.00781
564484.00 4150987.00 0.00614
564534.00 4150987.00 0.00493
564584.00 4150987.00 0.00404
564634.00 4150987.00 0.00336
564684.00 4150987.00 0.00284
563684.00 4151037.00 0.00177
563734.00 4151037.00 0.00220
563784.00 4151037.00 0.00281
563834.00 4151037.00 0.00369
563884.00 4151037.00 0.00499
563934.00 4151037.00 0.00699
563984.00 4151037.00 0.01011
564034.00 4151037.00 0.01504
564084.00 4151037.00 0.02307
564134.00 4151037.00 0.03693
564184.00 4151037.00 0.05061
564234.00 4151037.00 0.04100
564284.00 4151037.00 0.02645
564334.00 4151037.00 0.01734
564384.00 4151037.00 0.01208
564434.00 4151037.00 0.00885
564484.00 4151037.00 0.00675
564534.00 4151037.00 0.00530
564584.00 4151037.00 0.00427
564634.00 4151037.00 0.00351
564684.00 4151037.00 0.00294
563684.00 4151087.00 0.00192
563734.00 4151087.00 0.00242

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563784.00    4151087.00        0.00313
         563834.00    4151087.00        0.00418
563884.00    4151087.00        0.00579
         563934.00    4151087.00        0.00845
563984.00    4151087.00        0.01335
         564034.00    4151087.00        0.02322
564084.00    4151087.00        0.04587
         564134.00    4151087.00        0.10809
564184.00    4151087.00        0.13833
         564234.00    4151087.00        0.07255
564284.00    4151087.00        0.03599
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564334.00	4151087.00	0.02101	564384.00	4151087.00	0.01374
564434.00	4151087.00	0.00968	564484.00	4151087.00	0.00718
564534.00	4151087.00	0.00554	564584.00	4151087.00	0.00441
564634.00	4151087.00	0.00359	564684.00	4151087.00	0.00298
563684.00	4151137.00	0.00208	563734.00	4151137.00	0.00264
563784.00	4151137.00	0.00346	563834.00	4151137.00	0.00468
563884.00	4151137.00	0.00654	563934.00	4151137.00	0.00972
563984.00	4151137.00	0.01611	564034.00	4151137.00	0.03218
564084.00	4151137.00	0.08596			

564234.00 4151137.00 0.10181
564284.00 4151137.00 0.04156
564334.00 4151137.00 0.02256
564384.00 4151137.00 0.01421
564434.00 4151137.00 0.00980
564484.00 4151137.00 0.00717
564534.00 4151137.00 0.00549
564584.00 4151137.00 0.00434
564634.00 4151137.00 0.00352
564684.00 4151137.00 0.00291
563684.00 4151187.00 0.00222
563734.00 4151187.00 0.00286
563784.00 4151187.00 0.00382
563834.00 4151187.00 0.00519
563884.00 4151187.00 0.00715
563934.00 4151187.00 0.01054
563984.00 4151187.00 0.01755
564034.00 4151187.00 0.03533
564084.00 4151187.00 0.09676
564234.00 4151187.00 0.07315
564284.00 4151187.00 0.03265
564334.00 4151187.00 0.01871
564384.00 4151187.00 0.01220
564434.00 4151187.00 0.00860
564484.00 4151187.00 0.00640
564534.00 4151187.00 0.00496
564584.00 4151187.00 0.00396
564634.00 4151187.00 0.00323
564684.00 4151187.00 0.00269
563684.00 4151237.00 0.00239
563734.00 4151237.00 0.00318
563784.00 4151237.00 0.00441
563834.00 4151237.00 0.00595
563884.00 4151237.00 0.00785
563934.00 4151237.00 0.01135
563984.00 4151237.00 0.01949
564034.00 4151237.00 0.03391
564084.00 4151237.00 0.04284
564134.00 4151237.00 0.06048
564234.00 4151237.00 0.02389
564284.00 4151237.00 0.01577
564334.00 4151237.00 0.01113
564384.00 4151237.00 0.00822
564434.00 4151237.00 0.00630
564484.00 4151237.00 0.00496
564534.00 4151237.00 0.00400
564584.00 4151237.00 0.00329
564634.00 4151237.00 0.00275
564684.00 4151237.00 0.00233
563684.00 4151287.00 0.00267
563734.00 4151287.00 0.00411
563784.00 4151287.00 0.00652

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563834.00    4151287.00        0.00814
         563884.00    4151287.00        0.00961
563934.00    4151287.00        0.01460
         563984.00    4151287.00        0.02542
564034.00    4151287.00        0.02018
         564084.00    4151287.00        0.01691
564134.00    4151287.00        0.01415
         564184.00    4151287.00        0.01003
564234.00    4151287.00        0.00768
         564284.00    4151287.00        0.00640
564334.00    4151287.00        0.00547
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564384.00	4151287.00	0.00467	564434.00	4151287.00	0.00398
564484.00	4151287.00	0.00340	564534.00	4151287.00	0.00291
564584.00	4151287.00	0.00251	564634.00	4151287.00	0.00217
564684.00	4151287.00	0.00189	563684.00	4151337.00	0.00284
563734.00	4151337.00	0.00687	563784.00	4151337.00	0.01486
563834.00	4151337.00	0.01587	563884.00	4151337.00	0.01377
563934.00	4151337.00	0.02116	563984.00	4151337.00	0.01532
564034.00	4151337.00	0.01022	564084.00	4151337.00	0.00833
564134.00	4151337.00	0.00666			

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564184.00    4151337.00        0.00527
         564234.00    4151337.00        0.00418
564284.00    4151337.00        0.00342
         564334.00    4151337.00        0.00296
564384.00    4151337.00        0.00266
         564434.00    4151337.00        0.00242
564484.00    4151337.00        0.00220
         564534.00    4151337.00        0.00199
564584.00    4151337.00        0.00180
         564634.00    4151337.00        0.00162
564684.00    4151337.00        0.00147
         563684.00    4151387.00        0.00242
563734.00    4151387.00        0.00416
         563784.00    4151387.00        0.00726
563834.00    4151387.00        0.01317
         563884.00    4151387.00        0.01995
563934.00    4151387.00        0.01622
         563984.00    4151387.00        0.00887
564034.00    4151387.00        0.00615
         564084.00    4151387.00        0.00487
564134.00    4151387.00        0.00397
         564184.00    4151387.00        0.00331
564234.00    4151387.00        0.00276
         564284.00    4151387.00        0.00229
564334.00    4151387.00        0.00194
         564384.00    4151387.00        0.00171
564434.00    4151387.00        0.00156
         564484.00    4151387.00        0.00145
564534.00    4151387.00        0.00136
         564584.00    4151387.00        0.00127
564634.00    4151387.00        0.00118
         564684.00    4151387.00        0.00110
563684.00    4151437.00        0.00188
         563734.00    4151437.00        0.00259
563784.00    4151437.00        0.00380
         563834.00    4151437.00        0.00661
563884.00    4151437.00        0.00856
         563934.00    4151437.00        0.00702
563984.00    4151437.00        0.00471
         564034.00    4151437.00        0.00368
564084.00    4151437.00        0.00304
         564134.00    4151437.00        0.00258
564184.00    4151437.00        0.00224
         564234.00    4151437.00        0.00193
564284.00    4151437.00        0.00166
         564334.00    4151437.00        0.00142
564384.00    4151437.00        0.00124
         564434.00    4151437.00        0.00111
564484.00    4151437.00        0.00102
         564534.00    4151437.00        0.00096
564584.00    4151437.00        0.00090
         564634.00    4151437.00        0.00086
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564684.00    4151437.00        0.00082
         563684.00    4151487.00        0.00147
563734.00    4151487.00        0.00184
         563784.00    4151487.00        0.00231
563834.00    4151487.00        0.00278
         563884.00    4151487.00        0.00274
563934.00    4151487.00        0.00247
         563984.00    4151487.00        0.00232
564034.00    4151487.00        0.00213
         564084.00    4151487.00        0.00192
564134.00    4151487.00        0.00173
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564184.00	4151487.00	0.00156	564234.00	4151487.00	0.00140
564284.00	4151487.00	0.00123	564334.00	4151487.00	0.00108
564384.00	4151487.00	0.00095	564434.00	4151487.00	0.00084
564484.00	4151487.00	0.00077	564534.00	4151487.00	0.00071
564584.00	4151487.00	0.00067	564634.00	4151487.00	0.00064
564684.00	4151487.00	0.00061	563684.00	4151537.00	0.00119
563734.00	4151537.00	0.00140	563784.00	4151537.00	0.00159
563834.00	4151537.00	0.00170	563884.00	4151537.00	0.00167
563934.00	4151537.00	0.00159			

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563984.00    4151537.00        0.00148
         564034.00    4151537.00        0.00138
564084.00    4151537.00        0.00129
         564134.00    4151537.00        0.00120
564184.00    4151537.00        0.00112
         564234.00    4151537.00        0.00103
564284.00    4151537.00        0.00094
         564334.00    4151537.00        0.00084
564384.00    4151537.00        0.00075
         564434.00    4151537.00        0.00067
564484.00    4151537.00        0.00061
         564534.00    4151537.00        0.00056
564584.00    4151537.00        0.00052
         564634.00    4151537.00        0.00049
564684.00    4151537.00        0.00047
         563684.00    4151587.00        0.00099
563734.00    4151587.00        0.00111
         563784.00    4151587.00        0.00119
563834.00    4151587.00        0.00122
         563884.00    4151587.00        0.00120
563934.00    4151587.00        0.00115
         563984.00    4151587.00        0.00107
564034.00    4151587.00        0.00100
         564084.00    4151587.00        0.00094
564134.00    4151587.00        0.00089
         564184.00    4151587.00        0.00084
564234.00    4151587.00        0.00079
         564284.00    4151587.00        0.00073
564334.00    4151587.00        0.00067
         564384.00    4151587.00        0.00061
564434.00    4151587.00        0.00055
         564484.00    4151587.00        0.00050
564534.00    4151587.00        0.00045
         564584.00    4151587.00        0.00042
564634.00    4151587.00        0.00040
         564684.00    4151587.00        0.00038
563684.00    4151637.00        0.00084
         563734.00    4151637.00        0.00090
563784.00    4151637.00        0.00093
         563834.00    4151637.00        0.00093
563884.00    4151637.00        0.00091
         563934.00    4151637.00        0.00087
563984.00    4151637.00        0.00082
         564034.00    4151637.00        0.00077
564084.00    4151637.00        0.00073
         564134.00    4151637.00        0.00069
564184.00    4151637.00        0.00066
         564234.00    4151637.00        0.00062
564284.00    4151637.00        0.00059
         564334.00    4151637.00        0.00054
564384.00    4151637.00        0.00050
         564434.00    4151637.00        0.00046
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564484.00    4151637.00        0.00042
         564534.00    4151637.00        0.00038
564584.00    4151637.00        0.00035
         564634.00    4151637.00        0.00033
564684.00    4151637.00        0.00031
         563684.00    4151687.00        0.00071
563734.00    4151687.00        0.00074
         563784.00    4151687.00        0.00075
563834.00    4151687.00        0.00074
         563884.00    4151687.00        0.00072
563934.00    4151687.00        0.00069
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
563984.00	4151687.00	0.00065	564034.00	4151687.00	0.00062
564084.00	4151687.00	0.00059	564134.00	4151687.00	0.00056
564184.00	4151687.00	0.00054	564234.00	4151687.00	0.00051
564284.00	4151687.00	0.00048	564334.00	4151687.00	0.00045
564384.00	4151687.00	0.00042	564434.00	4151687.00	0.00039
564484.00	4151687.00	0.00036	564534.00	4151687.00	0.00033
564584.00	4151687.00	0.00030	564634.00	4151687.00	0.00028
564684.00	4151687.00	0.00026	564024.00	4150977.00	0.00849
564034.00	4150977.00	0.00894			

564044.00 4150977.00 0.00942
564054.00 4150977.00 0.00994
564064.00 4150977.00 0.01050
564074.00 4150977.00 0.01111
564084.00 4150977.00 0.01179
564094.00 4150977.00 0.01255
564104.00 4150977.00 0.01339
564114.00 4150977.00 0.01434
564124.00 4150977.00 0.01538
564134.00 4150977.00 0.01650
564144.00 4150977.00 0.01767
564024.00 4150987.00 0.00919
564034.00 4150987.00 0.00971
564044.00 4150987.00 0.01027
564054.00 4150987.00 0.01087
564064.00 4150987.00 0.01151
564074.00 4150987.00 0.01222
564084.00 4150987.00 0.01300
564094.00 4150987.00 0.01387
564104.00 4150987.00 0.01484
564114.00 4150987.00 0.01594
564124.00 4150987.00 0.01714
564134.00 4150987.00 0.01845
564144.00 4150987.00 0.01983
564024.00 4150997.00 0.00996
564034.00 4150997.00 0.01057
564044.00 4150997.00 0.01122
564054.00 4150997.00 0.01192
564064.00 4150997.00 0.01267
564074.00 4150997.00 0.01350
564084.00 4150997.00 0.01440
564094.00 4150997.00 0.01542
564104.00 4150997.00 0.01655
564114.00 4150997.00 0.01783
564124.00 4150997.00 0.01924
564134.00 4150997.00 0.02079
564144.00 4150997.00 0.02241
564024.00 4151007.00 0.01081
564034.00 4151007.00 0.01152
564044.00 4151007.00 0.01229
564054.00 4151007.00 0.01311
564064.00 4151007.00 0.01401
564074.00 4151007.00 0.01498
564084.00 4151007.00 0.01605
564094.00 4151007.00 0.01725
564104.00 4151007.00 0.01859
564114.00 4151007.00 0.02009
564124.00 4151007.00 0.02177
564134.00 4151007.00 0.02361
564144.00 4151007.00 0.02555
564024.00 4151017.00 0.01174
564034.00 4151017.00 0.01258

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564044.00    4151017.00        0.01349
         564054.00    4151017.00        0.01448
564064.00    4151017.00        0.01555
         564074.00    4151017.00        0.01671
564084.00    4151017.00        0.01800
         564094.00    4151017.00        0.01943
564104.00    4151017.00        0.02103
         564114.00    4151017.00        0.02284
564124.00    4151017.00        0.02486
         564134.00    4151017.00        0.02708
564144.00    4151017.00        0.02943
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564024.00	4151027.00	0.01276	564034.00	4151027.00	0.01376
564044.00	4151027.00	0.01484	564054.00	4151027.00	0.01602
564064.00	4151027.00	0.01732	564074.00	4151027.00	0.01874
564084.00	4151027.00	0.02031	564094.00	4151027.00	0.02206
564104.00	4151027.00	0.02402	564114.00	4151027.00	0.02622
564124.00	4151027.00	0.02869	564134.00	4151027.00	0.03141
564144.00	4151027.00	0.03431	564024.00	4151037.00	0.01387
564034.00	4151037.00	0.01504	564044.00	4151037.00	0.01634
564054.00	4151037.00	0.01777			

564064.00 4151037.00 0.01935
564074.00 4151037.00 0.02111
564084.00 4151037.00 0.02307
564094.00 4151037.00 0.02525
564104.00 4151037.00 0.02769
564114.00 4151037.00 0.03043
564124.00 4151037.00 0.03352
564134.00 4151037.00 0.03693
564144.00 4151037.00 0.04056
564024.00 4151047.00 0.01506
564034.00 4151047.00 0.01645
564044.00 4151047.00 0.01799
564054.00 4151047.00 0.01973
564064.00 4151047.00 0.02167
564074.00 4151047.00 0.02387
564084.00 4151047.00 0.02634
564094.00 4151047.00 0.02913
564104.00 4151047.00 0.03225
564114.00 4151047.00 0.03577
564124.00 4151047.00 0.03973
564134.00 4151047.00 0.04411
564144.00 4151047.00 0.04876
564024.00 4151057.00 0.01634
564034.00 4151057.00 0.01797
564044.00 4151057.00 0.01981
564054.00 4151057.00 0.02190
564064.00 4151057.00 0.02430
564074.00 4151057.00 0.02705
564084.00 4151057.00 0.03022
564094.00 4151057.00 0.03385
564104.00 4151057.00 0.03797
564114.00 4151057.00 0.04263
564124.00 4151057.00 0.04788
564134.00 4151057.00 0.05369
564144.00 4151057.00 0.05982
564024.00 4151067.00 0.01770
564034.00 4151067.00 0.01961
564044.00 4151067.00 0.02179
564054.00 4151067.00 0.02431
564064.00 4151067.00 0.02724
564074.00 4151067.00 0.03069
564084.00 4151067.00 0.03476
564094.00 4151067.00 0.03955
564104.00 4151067.00 0.04512
564114.00 4151067.00 0.05149
564124.00 4151067.00 0.05872
564134.00 4151067.00 0.06676
564144.00 4151067.00 0.07508
564107.97 4151217.98 0.08576
564126.88 4151212.46 0.12262
564146.59 4151252.73 0.03046
564179.25 4151251.60 0.02307

564210.51   4151177.54   0.13847
         564208.82   4151145.16   0.17226
564183.19   4151110.24   0.18580
         564162.92   4151096.45   0.16212
564148.56   4151092.79   0.14682
         564126.03   4151098.98   0.12146
564088.27   4151128.81   0.08450

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564114.01	4151261.20	0.02385	564135.61	4151266.04	0.01961
564119.54	4151293.69	0.01069	564130.77	4151312.01	0.00722
564163.09	4151305.62	0.00683	564177.44	4151299.74	0.00694
564196.97	4151291.79	0.00707	564210.10	4151280.21	0.00815
564220.30	4151264.14	0.01129	564227.90	4151247.38	0.01737
564238.45	4151230.27	0.02580	564240.80	4151212.56	0.03899
564248.22	4151198.20	0.04610	564256.35	4151175.24	0.05395
564269.75	4151162.08	0.04728	564286.49	4151151.08	0.03828
564308.10	4151135.11	0.02938	564329.77	4151126.39	0.02287
564243.38	4151128.82	0.08126	564191.23	4151093.66	0.14705
564176.16	4151074.52	0.10734	564232.45	4151110.30	0.09236
564235.20	4151074.64	0.06108	564247.20	4151064.67	0.04724
564261.03	4151054.91	0.03695	564279.33	4151048.00	0.02899
564092.05	4151261.51	0.02123			

564077.80   4151271.65   0.01586
         564075.89   4151298.68   0.00991
564092.20   4151320.13   0.00707
         564079.00   4151329.27   0.00624
564064.02   4151340.14   0.00541
         564053.40   4151343.64   0.00516
564038.54   4151353.00   0.00458
         564026.30   4151362.62   0.00408
564014.58   4151371.30   0.00369
         564004.15   4151384.96   0.00322
563986.52   4151397.01   0.00284
         563975.05   4151409.36   0.00254
563812.99   4151377.74   0.00164
         563786.51   4151378.74   0.00147
563747.29   4151364.63   0.00131
         563732.55   4151348.64   0.00129
564252.63   4151299.36   0.00487
         564270.08   4151278.80   0.00668
564280.78   4151263.04   0.00883
         564299.64   4151254.31   0.00956
564320.76   4151241.36   0.01055
         564338.49   4151199.69   0.01546
564223.05   4151086.47   0.08414
         564223.05   4151100.23   0.10029
564207.53   4151007.19   0.03138
         564220.50   4150997.85   0.02732
564231.22   4150986.27   0.02342
         564270.64   4151004.25   0.02251
564293.29   4151001.31   0.01883
         564316.46   4150997.68   0.01568
564190.93   4150987.82   0.02433
         564158.55   4151084.80   0.13060
563684.00   4150687.00   0.00077
         563734.00   4150687.00   0.00086
563784.00   4150687.00   0.00095
         563834.00   4150687.00   0.00105
563884.00   4150687.00   0.00116
         563934.00   4150687.00   0.00128
563984.00   4150687.00   0.00143
         564034.00   4150687.00   0.00163
564084.00   4150687.00   0.00190
         564134.00   4150687.00   0.00227
564184.00   4150687.00   0.00270
         564234.00   4150687.00   0.00310
564284.00   4150687.00   0.00334
         564334.00   4150687.00   0.00336
564384.00   4150687.00   0.00319
         564434.00   4150687.00   0.00291
564484.00   4150687.00   0.00261
         564534.00   4150687.00   0.00234
564584.00   4150687.00   0.00210
         564634.00   4150687.00   0.00189

564684.00 4150687.00 0.00171

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
563684.00	4150737.00	0.00087	563734.00	4150737.00	0.00097
563784.00	4150737.00	0.00110	563834.00	4150737.00	0.00123
563884.00	4150737.00	0.00137	563934.00	4150737.00	0.00153
563984.00	4150737.00	0.00172	564034.00	4150737.00	0.00198
564084.00	4150737.00	0.00235	564134.00	4150737.00	0.00285
564184.00	4150737.00	0.00344	564234.00	4150737.00	0.00395
564284.00	4150737.00	0.00419	564334.00	4150737.00	0.00411
564384.00	4150737.00	0.00379	564434.00	4150737.00	0.00338
564484.00	4150737.00	0.00298	564534.00	4150737.00	0.00264
564584.00	4150737.00	0.00234	564634.00	4150737.00	0.00209
564684.00	4150737.00	0.00188	563684.00	4150787.00	0.00096
563734.00	4150787.00	0.00110	563784.00	4150787.00	0.00127
563834.00	4150787.00	0.00145	563884.00	4150787.00	0.00164
563934.00	4150787.00	0.00186			

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563984.00    4150787.00        0.00212
         564034.00    4150787.00        0.00247
564084.00    4150787.00        0.00297
         564134.00    4150787.00        0.00368
564184.00    4150787.00        0.00450
         564234.00    4150787.00        0.00516
564284.00    4150787.00        0.00536
         564334.00    4150787.00        0.00508
564384.00    4150787.00        0.00454
         564434.00    4150787.00        0.00395
564484.00    4150787.00        0.00342
         564534.00    4150787.00        0.00298
564584.00    4150787.00        0.00262
         564634.00    4150787.00        0.00231
564684.00    4150787.00        0.00204
         563684.00    4150837.00        0.00106
563734.00    4150837.00        0.00124
         563784.00    4150837.00        0.00146
563834.00    4150837.00        0.00172
         563884.00    4150837.00        0.00200
563934.00    4150837.00        0.00232
         563984.00    4150837.00        0.00269
564034.00    4150837.00        0.00316
         564084.00    4150837.00        0.00387
564134.00    4150837.00        0.00492
         564184.00    4150837.00        0.00614
564234.00    4150837.00        0.00699
         564284.00    4150837.00        0.00702
564334.00    4150837.00        0.00636
         564384.00    4150837.00        0.00547
564434.00    4150837.00        0.00463
         564484.00    4150837.00        0.00394
564534.00    4150837.00        0.00337
         564584.00    4150837.00        0.00291
564634.00    4150837.00        0.00253
         564684.00    4150837.00        0.00221
563684.00    4150887.00        0.00116
         563734.00    4150887.00        0.00139
563784.00    4150887.00        0.00168
         563834.00    4150887.00        0.00203
563884.00    4150887.00        0.00246
         563934.00    4150887.00        0.00295
563984.00    4150887.00        0.00351
         564034.00    4150887.00        0.00422
564084.00    4150887.00        0.00527
         564134.00    4150887.00        0.00691
564184.00    4150887.00        0.00882
         564234.00    4150887.00        0.00987
564284.00    4150887.00        0.00941
         564334.00    4150887.00        0.00806
564384.00    4150887.00        0.00663
         564434.00    4150887.00        0.00545
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564484.00 4150887.00 0.00452

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564534.00	4150887.00	0.00380	564584.00	4150887.00	0.00322
564634.00	4150887.00	0.00275	564684.00	4150887.00	0.00237
563684.00	4150937.00	0.00125	563734.00	4150937.00	0.00152
563784.00	4150937.00	0.00189	563834.00	4150937.00	0.00238
563884.00	4150937.00	0.00301	563934.00	4150937.00	0.00379
563984.00	4150937.00	0.00474	564034.00	4150937.00	0.00591
564084.00	4150937.00	0.00761	564134.00	4150937.00	0.01041
564184.00	4150937.00	0.01365	564234.00	4150937.00	0.01470
564284.00	4150937.00	0.01294	564334.00	4150937.00	0.01031
564384.00	4150937.00	0.00807	564434.00	4150937.00	0.00640
564484.00	4150937.00	0.00516	564534.00	4150937.00	0.00423
564584.00	4150937.00	0.00351	564634.00	4150937.00	0.00295
564684.00	4150937.00	0.00251	563684.00	4150987.00	0.00133
563734.00	4150987.00	0.00165			

563784.00 4150987.00 0.00209
563834.00 4150987.00 0.00272
563884.00 4150987.00 0.00361
563934.00 4150987.00 0.00486
563984.00 4150987.00 0.00656
564034.00 4150987.00 0.00880
564084.00 4150987.00 0.01201
564134.00 4150987.00 0.01746
564184.00 4150987.00 0.02363
564234.00 4150987.00 0.02339
564284.00 4150987.00 0.01819
564334.00 4150987.00 0.01322
564384.00 4150987.00 0.00976
564434.00 4150987.00 0.00742
564484.00 4150987.00 0.00580
564534.00 4150987.00 0.00464
564584.00 4150987.00 0.00378
564634.00 4150987.00 0.00313
564684.00 4150987.00 0.00263
563684.00 4151037.00 0.00141
563734.00 4151037.00 0.00176
563784.00 4151037.00 0.00227
563834.00 4151037.00 0.00303
563884.00 4151037.00 0.00419
563934.00 4151037.00 0.00604
563984.00 4151037.00 0.00901
564034.00 4151037.00 0.01377
564084.00 4151037.00 0.02166
564134.00 4151037.00 0.03556
564184.00 4151037.00 0.04945
564234.00 4151037.00 0.04008
564284.00 4151037.00 0.02571
564334.00 4151037.00 0.01674
564384.00 4151037.00 0.01158
564434.00 4151037.00 0.00843
564484.00 4151037.00 0.00639
564534.00 4151037.00 0.00499
564584.00 4151037.00 0.00400
564634.00 4151037.00 0.00328
564684.00 4151037.00 0.00273
563684.00 4151087.00 0.00148
563734.00 4151087.00 0.00187
563784.00 4151087.00 0.00243
563834.00 4151087.00 0.00328
563884.00 4151087.00 0.00468
563934.00 4151087.00 0.00710
563984.00 4151087.00 0.01173
564034.00 4151087.00 0.02128
564084.00 4151087.00 0.04368
564134.00 4151087.00 0.10606
564184.00 4151087.00 0.13680
564234.00 4151087.00 0.07143

564284.00 4151087.00 0.03513

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564334.00	4151087.00	0.02033	564384.00	4151087.00	0.01319
564434.00	4151087.00	0.00922	564484.00	4151087.00	0.00680
564534.00	4151087.00	0.00522	564584.00	4151087.00	0.00413
564634.00	4151087.00	0.00334	564684.00	4151087.00	0.00276
563684.00	4151137.00	0.00153	563734.00	4151137.00	0.00193
563784.00	4151137.00	0.00252	563834.00	4151137.00	0.00343
563884.00	4151137.00	0.00494	563934.00	4151137.00	0.00770
563984.00	4151137.00	0.01348	564034.00	4151137.00	0.02872
564084.00	4151137.00	0.08182	564234.00	4151137.00	0.10046
564284.00	4151137.00	0.04058	564334.00	4151137.00	0.02181
564384.00	4151137.00	0.01362	564434.00	4151137.00	0.00931
564484.00	4151137.00	0.00677	564534.00	4151137.00	0.00515
564584.00	4151137.00	0.00405	564634.00	4151137.00	0.00327
564684.00	4151137.00	0.00269			

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563684.00    4151187.00        0.00150
         563734.00    4151187.00        0.00189
563784.00    4151187.00        0.00245
         563834.00    4151187.00        0.00333
563884.00    4151187.00        0.00476
         563934.00    4151187.00        0.00735
563984.00    4151187.00        0.01275
         564034.00    4151187.00        0.02711
564084.00    4151187.00        0.08522
         564234.00    4151187.00        0.07160
564284.00    4151187.00        0.03157
         564334.00    4151187.00        0.01791
564384.00    4151187.00        0.01158
         564434.00    4151187.00        0.00810
564484.00    4151187.00        0.00599
         564534.00    4151187.00        0.00461
564584.00    4151187.00        0.00366
         564634.00    4151187.00        0.00298
564684.00    4151187.00        0.00247
         563684.00    4151237.00        0.00140
563734.00    4151237.00        0.00174
         563784.00    4151237.00        0.00222
563834.00    4151237.00        0.00295
         563884.00    4151237.00        0.00410
563934.00    4151237.00        0.00604
         563984.00    4151237.00        0.00965
564034.00    4151237.00        0.01715
         564084.00    4151237.00        0.03325
564134.00    4151237.00        0.05612
         564234.00    4151237.00        0.02237
564284.00    4151237.00        0.01471
         564334.00    4151237.00        0.01034
564384.00    4151237.00        0.00761
         564434.00    4151237.00        0.00580
564484.00    4151237.00        0.00455
         564534.00    4151237.00        0.00366
564584.00    4151237.00        0.00300
         564634.00    4151237.00        0.00250
564684.00    4151237.00        0.00211
         563684.00    4151287.00        0.00125
563734.00    4151287.00        0.00153
         563784.00    4151287.00        0.00192
563834.00    4151287.00        0.00248
         563884.00    4151287.00        0.00332
563934.00    4151287.00        0.00461
         563984.00    4151287.00        0.00664
564034.00    4151287.00        0.00955
         564084.00    4151287.00        0.01235
564134.00    4151287.00        0.01156
         564184.00    4151287.00        0.00831
564234.00    4151287.00        0.00645
         564284.00    4151287.00        0.00548
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564334.00 4151287.00 0.00476

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564384.00	4151287.00	0.00411	564434.00	4151287.00	0.00352
564484.00	4151287.00	0.00302	564534.00	4151287.00	0.00259
564584.00	4151287.00	0.00223	564634.00	4151287.00	0.00193
564684.00	4151287.00	0.00169	563684.00	4151337.00	0.00111
563734.00	4151337.00	0.00134	563784.00	4151337.00	0.00164
563834.00	4151337.00	0.00207	563884.00	4151337.00	0.00267
563934.00	4151337.00	0.00349	563984.00	4151337.00	0.00451
564034.00	4151337.00	0.00541	564084.00	4151337.00	0.00557
564134.00	4151337.00	0.00486	564184.00	4151337.00	0.00399
564234.00	4151337.00	0.00322	564284.00	4151337.00	0.00268
564334.00	4151337.00	0.00236	564384.00	4151337.00	0.00217
564434.00	4151337.00	0.00201	564484.00	4151337.00	0.00186
564534.00	4151337.00	0.00170	564584.00	4151337.00	0.00155
564634.00	4151337.00	0.00141			

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564684.00    4151337.00        0.00127
         563684.00    4151387.00        0.00098
563734.00    4151387.00        0.00117
         563784.00    4151387.00        0.00142
563834.00    4151387.00        0.00174
         563884.00    4151387.00        0.00215
563934.00    4151387.00        0.00263
         563984.00    4151387.00        0.00305
564034.00    4151387.00        0.00322
         564084.00    4151387.00        0.00305
564134.00    4151387.00        0.00271
         564184.00    4151387.00        0.00238
564234.00    4151387.00        0.00203
         564284.00    4151387.00        0.00171
564334.00    4151387.00        0.00146
         564384.00    4151387.00        0.00131
564434.00    4151387.00        0.00122
         564484.00    4151387.00        0.00116
564534.00    4151387.00        0.00110
         564584.00    4151387.00        0.00105
564634.00    4151387.00        0.00099
         564684.00    4151387.00        0.00093
563684.00    4151437.00        0.00088
         563734.00    4151437.00        0.00104
563784.00    4151437.00        0.00123
         563834.00    4151437.00        0.00147
563884.00    4151437.00        0.00173
         563934.00    4151437.00        0.00196
563984.00    4151437.00        0.00209
         564034.00    4151437.00        0.00206
564084.00    4151437.00        0.00191
         564134.00    4151437.00        0.00175
564184.00    4151437.00        0.00158
         564234.00    4151437.00        0.00141
564284.00    4151437.00        0.00122
         564334.00    4151437.00        0.00105
564384.00    4151437.00        0.00092
         564434.00    4151437.00        0.00083
564484.00    4151437.00        0.00078
         564534.00    4151437.00        0.00074
564584.00    4151437.00        0.00072
         564634.00    4151437.00        0.00069
564684.00    4151437.00        0.00067
         563684.00    4151487.00        0.00079
563734.00    4151487.00        0.00092
         563784.00    4151487.00        0.00107
563834.00    4151487.00        0.00123
         563884.00    4151487.00        0.00137
563934.00    4151487.00        0.00146
         563984.00    4151487.00        0.00147
564034.00    4151487.00        0.00141
         564084.00    4151487.00        0.00132
```

564134.00 4151487.00 0.00122

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564184.00	4151487.00	0.00114	564234.00	4151487.00	0.00104
564284.00	4151487.00	0.00092	564334.00	4151487.00	0.00081
564384.00	4151487.00	0.00071	564434.00	4151487.00	0.00063
564484.00	4151487.00	0.00058	564534.00	4151487.00	0.00054
564584.00	4151487.00	0.00052	564634.00	4151487.00	0.00050
564684.00	4151487.00	0.00049	563684.00	4151537.00	0.00072
563734.00	4151537.00	0.00082	563784.00	4151537.00	0.00092
563834.00	4151537.00	0.00102	563884.00	4151537.00	0.00108
563934.00	4151537.00	0.00110	563984.00	4151537.00	0.00108
564034.00	4151537.00	0.00102	564084.00	4151537.00	0.00097
564134.00	4151537.00	0.00091	564184.00	4151537.00	0.00086
564234.00	4151537.00	0.00080	564284.00	4151537.00	0.00073
564334.00	4151537.00	0.00065	564384.00	4151537.00	0.00058
564434.00	4151537.00	0.00051			

564484.00 4151537.00 0.00046
564534.00 4151537.00 0.00042
564584.00 4151537.00 0.00040
564634.00 4151537.00 0.00038
564684.00 4151537.00 0.00037
563684.00 4151587.00 0.00065
563734.00 4151587.00 0.00072
563784.00 4151587.00 0.00079
563834.00 4151587.00 0.00084
563884.00 4151587.00 0.00086
563934.00 4151587.00 0.00085
563984.00 4151587.00 0.00082
564034.00 4151587.00 0.00078
564084.00 4151587.00 0.00074
564134.00 4151587.00 0.00071
564184.00 4151587.00 0.00067
564234.00 4151587.00 0.00063
564284.00 4151587.00 0.00058
564334.00 4151587.00 0.00053
564384.00 4151587.00 0.00048
564434.00 4151587.00 0.00043
564484.00 4151587.00 0.00039
564534.00 4151587.00 0.00035
564584.00 4151587.00 0.00032
564634.00 4151587.00 0.00031
564684.00 4151587.00 0.00029
563684.00 4151637.00 0.00058
563734.00 4151637.00 0.00063
563784.00 4151637.00 0.00067
563834.00 4151637.00 0.00069
563884.00 4151637.00 0.00069
563934.00 4151637.00 0.00067
563984.00 4151637.00 0.00064
564034.00 4151637.00 0.00061
564084.00 4151637.00 0.00059
564134.00 4151637.00 0.00057
564184.00 4151637.00 0.00054
564234.00 4151637.00 0.00051
564284.00 4151637.00 0.00048
564334.00 4151637.00 0.00044
564384.00 4151637.00 0.00041
564434.00 4151637.00 0.00037
564484.00 4151637.00 0.00033
564534.00 4151637.00 0.00030
564584.00 4151637.00 0.00028
564634.00 4151637.00 0.00026
564684.00 4151637.00 0.00024
563684.00 4151687.00 0.00052
563734.00 4151687.00 0.00055
563784.00 4151687.00 0.00056
563834.00 4151687.00 0.00057
563884.00 4151687.00 0.00056

563934.00 4151687.00 0.00054

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
563984.00	4151687.00	0.00052	564034.00	4151687.00	0.00050
564084.00	4151687.00	0.00048	564134.00	4151687.00	0.00046
564184.00	4151687.00	0.00045	564234.00	4151687.00	0.00043
564284.00	4151687.00	0.00040	564334.00	4151687.00	0.00038
564384.00	4151687.00	0.00035	564434.00	4151687.00	0.00032
564484.00	4151687.00	0.00029	564534.00	4151687.00	0.00027
564584.00	4151687.00	0.00024	564634.00	4151687.00	0.00022
564684.00	4151687.00	0.00021	564024.00	4150977.00	0.00765
564034.00	4150977.00	0.00809	564044.00	4150977.00	0.00855
564054.00	4150977.00	0.00905	564064.00	4150977.00	0.00959
564074.00	4150977.00	0.01019	564084.00	4150977.00	0.01086
564094.00	4150977.00	0.01161	564104.00	4150977.00	0.01245
564114.00	4150977.00	0.01339	564124.00	4150977.00	0.01444
564134.00	4150977.00	0.01557			

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564144.00    4150977.00        0.01675
         564024.00    4150987.00        0.00830
564034.00    4150987.00        0.00880
         564044.00    4150987.00        0.00934
564054.00    4150987.00        0.00992
         564064.00    4150987.00        0.01055
564074.00    4150987.00        0.01124
         564084.00    4150987.00        0.01201
564094.00    4150987.00        0.01287
         564104.00    4150987.00        0.01384
564114.00    4150987.00        0.01493
         564124.00    4150987.00        0.01614
564134.00    4150987.00        0.01746
         564144.00    4150987.00        0.01885
564024.00    4150997.00        0.00901
         564034.00    4150997.00        0.00960
564044.00    4150997.00        0.01023
         564054.00    4150997.00        0.01091
564064.00    4150997.00        0.01164
         564074.00    4150997.00        0.01245
564084.00    4150997.00        0.01335
         564094.00    4150997.00        0.01435
564104.00    4150997.00        0.01548
         564114.00    4150997.00        0.01676
564124.00    4150997.00        0.01818
         564134.00    4150997.00        0.01973
564144.00    4150997.00        0.02137
         564024.00    4151007.00        0.00980
564034.00    4151007.00        0.01049
         564044.00    4151007.00        0.01123
564054.00    4151007.00        0.01203
         564064.00    4151007.00        0.01291
564074.00    4151007.00        0.01386
         564084.00    4151007.00        0.01492
564094.00    4151007.00        0.01611
         564104.00    4151007.00        0.01744
564114.00    4151007.00        0.01895
         564124.00    4151007.00        0.02064
564134.00    4151007.00        0.02249
         564144.00    4151007.00        0.02445
564024.00    4151017.00        0.01066
         564034.00    4151017.00        0.01148
564044.00    4151017.00        0.01236
         564054.00    4151017.00        0.01332
564064.00    4151017.00        0.01437
         564074.00    4151017.00        0.01552
564084.00    4151017.00        0.01679
         564094.00    4151017.00        0.01821
564104.00    4151017.00        0.01981
         564114.00    4151017.00        0.02162
564124.00    4151017.00        0.02365
         564134.00    4151017.00        0.02589
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564144.00 4151017.00 0.02826

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564024.00	4151027.00	0.01160	564034.00	4151027.00	0.01257
564044.00	4151027.00	0.01362	564054.00	4151027.00	0.01478
564064.00	4151027.00	0.01605	564074.00	4151027.00	0.01745
564084.00	4151027.00	0.01901	564094.00	4151027.00	0.02075
564104.00	4151027.00	0.02270	564114.00	4151027.00	0.02491
564124.00	4151027.00	0.02739	564134.00	4151027.00	0.03014
564144.00	4151027.00	0.03306	564024.00	4151037.00	0.01262
564034.00	4151037.00	0.01377	564044.00	4151037.00	0.01503
564054.00	4151037.00	0.01643	564064.00	4151037.00	0.01799
564074.00	4151037.00	0.01972	564084.00	4151037.00	0.02166
564094.00	4151037.00	0.02383	564104.00	4151037.00	0.02627
564114.00	4151037.00	0.02902	564124.00	4151037.00	0.03212
564134.00	4151037.00	0.03556	564144.00	4151037.00	0.03922
564024.00	4151047.00	0.01372			

564034.00 4151047.00 0.01507
564044.00 4151047.00 0.01658
564054.00 4151047.00 0.01828
564064.00 4151047.00 0.02020
564074.00 4151047.00 0.02237
564084.00 4151047.00 0.02482
564094.00 4151047.00 0.02759
564104.00 4151047.00 0.03072
564114.00 4151047.00 0.03425
564124.00 4151047.00 0.03823
564134.00 4151047.00 0.04264
564144.00 4151047.00 0.04733
564024.00 4151057.00 0.01489
564034.00 4151057.00 0.01648
564044.00 4151057.00 0.01828
564054.00 4151057.00 0.02033
564064.00 4151057.00 0.02269
564074.00 4151057.00 0.02542
564084.00 4151057.00 0.02857
564094.00 4151057.00 0.03218
564104.00 4151057.00 0.03630
564114.00 4151057.00 0.04098
564124.00 4151057.00 0.04625
564134.00 4151057.00 0.05211
564144.00 4151057.00 0.05828
564024.00 4151067.00 0.01612
564034.00 4151067.00 0.01799
564044.00 4151067.00 0.02012
564054.00 4151067.00 0.02260
564064.00 4151067.00 0.02549
564074.00 4151067.00 0.02890
564084.00 4151067.00 0.03295
564094.00 4151067.00 0.03774
564104.00 4151067.00 0.04330
564114.00 4151067.00 0.04969
564124.00 4151067.00 0.05696
564134.00 4151067.00 0.06504
564144.00 4151067.00 0.07342
564107.97 4151217.98 0.07664
564126.88 4151212.46 0.11541
564146.59 4151252.73 0.02736
564179.25 4151251.60 0.02079
564210.51 4151177.54 0.13660
564208.82 4151145.16 0.17056
564183.19 4151110.24 0.18404
564162.92 4151096.45 0.16025
564148.56 4151092.79 0.14484
564126.03 4151098.98 0.11911
564088.27 4151128.81 0.08084

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564114.01	4151261.20	0.00408	564135.61	4151266.04	0.00305
564119.54	4151293.69	0.00283	564130.77	4151312.01	0.00221
564163.09	4151305.62	0.00178	564177.44	4151299.74	0.00167
564196.97	4151291.79	0.00152	564210.10	4151280.21	0.00149
564220.30	4151264.14	0.00151	564227.90	4151247.38	0.00154
564238.45	4151230.27	0.00149	564240.80	4151212.56	0.00149
564248.22	4151198.20	0.00140	564256.35	4151175.24	0.00128
564269.75	4151162.08	0.00113	564286.49	4151151.08	0.00100
564308.10	4151135.11	0.00085	564329.77	4151126.39	0.00075
564243.38	4151128.82	0.00123	564191.23	4151093.66	0.00152
564176.16	4151074.52	0.00149	564232.45	4151110.30	0.00124

564235.20 4151074.64 0.00106
564247.20 4151064.67 0.00096
564261.03 4151054.91 0.00087
564279.33 4151048.00 0.00078
564092.05 4151261.51 0.00547
564077.80 4151271.65 0.00597
564075.89 4151298.68 0.00448
564092.20 4151320.13 0.00297
564079.00 4151329.27 0.00312
564064.02 4151340.14 0.00327
564053.40 4151343.64 0.00354
564038.54 4151353.00 0.00383
564026.30 4151362.62 0.00405
564014.58 4151371.30 0.00434
564004.15 4151384.96 0.00435
563986.52 4151397.01 0.00492
563975.05 4151409.36 0.00499
563812.99 4151377.74 0.01125
563786.51 4151378.74 0.00720
563747.29 4151364.63 0.00586
563732.55 4151348.64 0.00526
564252.63 4151299.36 0.00104
564270.08 4151278.80 0.00103
564280.78 4151263.04 0.00102
564299.64 4151254.31 0.00093
564320.76 4151241.36 0.00084
564338.49 4151199.69 0.00078
564223.05 4151086.47 0.00120
564223.05 4151100.23 0.00127
564207.53 4151007.19 0.00091
564220.50 4150997.85 0.00083
564231.22 4150986.27 0.00076
564270.64 4151004.25 0.00070
564293.29 4151001.31 0.00064
564316.46 4150997.68 0.00058
564190.93 4150987.82 0.00088
564158.55 4151084.80 0.00176
563684.00 4150687.00 0.00012
563734.00 4150687.00 0.00013
563784.00 4150687.00 0.00014
563834.00 4150687.00 0.00016
563884.00 4150687.00 0.00018
563934.00 4150687.00 0.00020
563984.00 4150687.00 0.00022
564034.00 4150687.00 0.00025
564084.00 4150687.00 0.00027
564134.00 4150687.00 0.00028
564184.00 4150687.00 0.00028
564234.00 4150687.00 0.00028
564284.00 4150687.00 0.00027
564334.00 4150687.00 0.00025
564384.00 4150687.00 0.00023

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         564434.00    4150687.00        0.00021
564484.00    4150687.00        0.00020
         564534.00    4150687.00        0.00018
564584.00    4150687.00        0.00017
         564634.00    4150687.00        0.00016
564684.00    4150687.00        0.00015
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
563684.00	4150737.00	0.00013	563734.00	4150737.00	0.00015
563784.00	4150737.00	0.00016	563834.00	4150737.00	0.00018
563884.00	4150737.00	0.00021	563934.00	4150737.00	0.00023
563984.00	4150737.00	0.00026	564034.00	4150737.00	0.00029
564084.00	4150737.00	0.00031	564134.00	4150737.00	0.00033
564184.00	4150737.00	0.00033	564234.00	4150737.00	0.00032
564284.00	4150737.00	0.00030	564334.00	4150737.00	0.00028
564384.00	4150737.00	0.00026	564434.00	4150737.00	0.00023
564484.00	4150737.00	0.00021	564534.00	4150737.00	0.00020
564584.00	4150737.00	0.00018	564634.00	4150737.00	0.00017
564684.00	4150737.00	0.00016	563684.00	4150787.00	0.00015

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         563734.00    4150787.00        0.00017
563784.00    4150787.00        0.00019
         563834.00    4150787.00        0.00022
563884.00    4150787.00        0.00025
         563934.00    4150787.00        0.00028
563984.00    4150787.00        0.00031
         564034.00    4150787.00        0.00035
564084.00    4150787.00        0.00038
         564134.00    4150787.00        0.00039
564184.00    4150787.00        0.00039
         564234.00    4150787.00        0.00038
564284.00    4150787.00        0.00035
         564334.00    4150787.00        0.00031
564384.00    4150787.00        0.00028
         564434.00    4150787.00        0.00026
564484.00    4150787.00        0.00023
         564534.00    4150787.00        0.00021
564584.00    4150787.00        0.00020
         564634.00    4150787.00        0.00018
564684.00    4150787.00        0.00017
         563684.00    4150837.00        0.00018
563734.00    4150837.00        0.00020
         563784.00    4150837.00        0.00022
563834.00    4150837.00        0.00026
         563884.00    4150837.00        0.00030
563934.00    4150837.00        0.00034
         563984.00    4150837.00        0.00038
564034.00    4150837.00        0.00043
         564084.00    4150837.00        0.00046
564134.00    4150837.00        0.00048
         564184.00    4150837.00        0.00047
564234.00    4150837.00        0.00044
         564284.00    4150837.00        0.00040
564334.00    4150837.00        0.00036
         564384.00    4150837.00        0.00032
564434.00    4150837.00        0.00029
         564484.00    4150837.00        0.00026
564534.00    4150837.00        0.00023
         564584.00    4150837.00        0.00021
564634.00    4150837.00        0.00019
         564684.00    4150837.00        0.00018
563684.00    4150887.00        0.00021
         563734.00    4150887.00        0.00024
563784.00    4150887.00        0.00027
         563834.00    4150887.00        0.00031
563884.00    4150887.00        0.00036
         563934.00    4150887.00        0.00042
563984.00    4150887.00        0.00048
         564034.00    4150887.00        0.00053
564084.00    4150887.00        0.00058
         564134.00    4150887.00        0.00059
564184.00    4150887.00        0.00057
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         564234.00    4150887.00        0.00052
564284.00    4150887.00        0.00046
         564334.00    4150887.00        0.00041
564384.00    4150887.00        0.00036
         564434.00    4150887.00        0.00032
564484.00    4150887.00        0.00028
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564534.00	4150887.00	0.00025	564584.00	4150887.00	0.00023
564634.00	4150887.00	0.00020	564684.00	4150887.00	0.00019
563684.00	4150937.00	0.00024	563734.00	4150937.00	0.00028
563784.00	4150937.00	0.00033	563834.00	4150937.00	0.00039
563884.00	4150937.00	0.00046	563934.00	4150937.00	0.00053
563984.00	4150937.00	0.00061	564034.00	4150937.00	0.00068
564084.00	4150937.00	0.00074	564134.00	4150937.00	0.00075
564184.00	4150937.00	0.00071	564234.00	4150937.00	0.00062
564284.00	4150937.00	0.00054	564334.00	4150937.00	0.00046
564384.00	4150937.00	0.00040	564434.00	4150937.00	0.00035
564484.00	4150937.00	0.00031	564534.00	4150937.00	0.00027

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         564584.00    4150937.00        0.00024
564634.00    4150937.00        0.00022
         564684.00    4150937.00        0.00019
563684.00    4150987.00        0.00029
         563734.00    4150987.00        0.00035
563784.00    4150987.00        0.00042
         563834.00    4150987.00        0.00050
563884.00    4150987.00        0.00060
         563934.00    4150987.00        0.00070
563984.00    4150987.00        0.00080
         564034.00    4150987.00        0.00091
564084.00    4150987.00        0.00099
         564134.00    4150987.00        0.00099
564184.00    4150987.00        0.00089
         564234.00    4150987.00        0.00076
564284.00    4150987.00        0.00063
         564334.00    4150987.00        0.00053
564384.00    4150987.00        0.00045
         564434.00    4150987.00        0.00039
564484.00    4150987.00        0.00034
         564534.00    4150987.00        0.00029
564584.00    4150987.00        0.00026
         564634.00    4150987.00        0.00023
564684.00    4150987.00        0.00020
         563684.00    4151037.00        0.00036
563734.00    4151037.00        0.00043
         563784.00    4151037.00        0.00053
563834.00    4151037.00        0.00066
         563884.00    4151037.00        0.00080
563934.00    4151037.00        0.00095
         563984.00    4151037.00        0.00111
564034.00    4151037.00        0.00128
         564084.00    4151037.00        0.00141
564134.00    4151037.00        0.00137
         564184.00    4151037.00        0.00116
564234.00    4151037.00        0.00092
         564284.00    4151037.00        0.00074
564334.00    4151037.00        0.00060
         564384.00    4151037.00        0.00050
564434.00    4151037.00        0.00042
         564484.00    4151037.00        0.00036
564534.00    4151037.00        0.00031
         564584.00    4151037.00        0.00027
564634.00    4151037.00        0.00024
         564684.00    4151037.00        0.00021
563684.00    4151087.00        0.00044
         563734.00    4151087.00        0.00055
563784.00    4151087.00        0.00070
         563834.00    4151087.00        0.00089
563884.00    4151087.00        0.00111
         563934.00    4151087.00        0.00135
563984.00    4151087.00        0.00163
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         564034.00    4151087.00        0.00195
564084.00    4151087.00        0.00219
         564134.00    4151087.00        0.00203
564184.00    4151087.00        0.00153
         564234.00    4151087.00        0.00113
564284.00    4151087.00        0.00086
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564334.00	4151087.00	0.00068	564384.00	4151087.00	0.00055
564434.00	4151087.00	0.00045	564484.00	4151087.00	0.00038
564534.00	4151087.00	0.00033	564584.00	4151087.00	0.00028
564634.00	4151087.00	0.00024	564684.00	4151087.00	0.00022
563684.00	4151137.00	0.00056	563734.00	4151137.00	0.00071
563784.00	4151137.00	0.00095	563834.00	4151137.00	0.00125
563884.00	4151137.00	0.00160	563934.00	4151137.00	0.00202
563984.00	4151137.00	0.00263	564034.00	4151137.00	0.00346
564084.00	4151137.00	0.00413	564234.00	4151137.00	0.00135
564284.00	4151137.00	0.00098	564334.00	4151137.00	0.00075
564384.00	4151137.00	0.00059	564434.00	4151137.00	0.00048

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         564484.00    4151137.00        0.00040
564534.00    4151137.00        0.00034
         564584.00    4151137.00        0.00029
564634.00    4151137.00        0.00025
         564684.00    4151137.00        0.00022
563684.00    4151187.00        0.00073
         563734.00    4151187.00        0.00097
563784.00    4151187.00        0.00136
         563834.00    4151187.00        0.00186
563884.00    4151187.00        0.00239
         563934.00    4151187.00        0.00319
563984.00    4151187.00        0.00480
         564034.00    4151187.00        0.00822
564084.00    4151187.00        0.01155
         564234.00    4151187.00        0.00155
564284.00    4151187.00        0.00107
         564334.00    4151187.00        0.00080
564384.00    4151187.00        0.00062
         564434.00    4151187.00        0.00050
564484.00    4151187.00        0.00041
         564534.00    4151187.00        0.00034
564584.00    4151187.00        0.00029
         564634.00    4151187.00        0.00025
564684.00    4151187.00        0.00022
         563684.00    4151237.00        0.00100
563734.00    4151237.00        0.00144
         563784.00    4151237.00        0.00219
563834.00    4151237.00        0.00300
         563884.00    4151237.00        0.00375
563934.00    4151237.00        0.00530
         563984.00    4151237.00        0.00983
564034.00    4151237.00        0.01676
         564084.00    4151237.00        0.00958
564134.00    4151237.00        0.00436
         564234.00    4151237.00        0.00152
564284.00    4151237.00        0.00106
         564334.00    4151237.00        0.00079
564384.00    4151237.00        0.00061
         564434.00    4151237.00        0.00049
564484.00    4151237.00        0.00041
         564534.00    4151237.00        0.00034
564584.00    4151237.00        0.00029
         564634.00    4151237.00        0.00025
564684.00    4151237.00        0.00022
         563684.00    4151287.00        0.00141
563734.00    4151287.00        0.00258
         563784.00    4151287.00        0.00460
563834.00    4151287.00        0.00566
         563884.00    4151287.00        0.00629
563934.00    4151287.00        0.00999
         563984.00    4151287.00        0.01878
564034.00    4151287.00        0.01064
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         564084.00    4151287.00        0.00456
564134.00    4151287.00        0.00260
         564184.00    4151287.00        0.00172
564234.00    4151287.00        0.00123
         564284.00    4151287.00        0.00092
564334.00    4151287.00        0.00071
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564384.00	4151287.00	0.00056	564434.00	4151287.00	0.00046
564484.00	4151287.00	0.00038	564534.00	4151287.00	0.00032
564584.00	4151287.00	0.00027	564634.00	4151287.00	0.00024
564684.00	4151287.00	0.00021	563684.00	4151337.00	0.00173
563734.00	4151337.00	0.00553	563784.00	4151337.00	0.01321
563834.00	4151337.00	0.01380	563884.00	4151337.00	0.01111
563934.00	4151337.00	0.01767	563984.00	4151337.00	0.01081
564034.00	4151337.00	0.00481	564084.00	4151337.00	0.00276
564134.00	4151337.00	0.00180	564184.00	4151337.00	0.00127
564234.00	4151337.00	0.00095	564284.00	4151337.00	0.00074
564334.00	4151337.00	0.00060	564384.00	4151337.00	0.00049

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         564434.00    4151337.00        0.00040
564484.00    4151337.00        0.00034
         564534.00    4151337.00        0.00029
564584.00    4151337.00        0.00025
         564634.00    4151337.00        0.00022
564684.00    4151337.00        0.00019
         563684.00    4151387.00        0.00144
563734.00    4151387.00        0.00299
         563784.00    4151387.00        0.00584
563834.00    4151387.00        0.01143
         563884.00    4151387.00        0.01780
563934.00    4151387.00        0.01359
         563984.00    4151387.00        0.00582
564034.00    4151387.00        0.00293
         564084.00    4151387.00        0.00182
564134.00    4151387.00        0.00126
         564184.00    4151387.00        0.00094
564234.00    4151387.00        0.00073
         564284.00    4151387.00        0.00058
564334.00    4151387.00        0.00048
         564384.00    4151387.00        0.00040
564434.00    4151387.00        0.00034
         564484.00    4151387.00        0.00029
564534.00    4151387.00        0.00025
         564584.00    4151387.00        0.00022
564634.00    4151387.00        0.00019
         564684.00    4151387.00        0.00017
563684.00    4151437.00        0.00100
         563734.00    4151437.00        0.00156
563784.00    4151437.00        0.00257
         563834.00    4151437.00        0.00514
563884.00    4151437.00        0.00683
         563934.00    4151437.00        0.00505
563984.00    4151437.00        0.00262
         564034.00    4151437.00        0.00162
564084.00    4151437.00        0.00113
         564134.00    4151437.00        0.00084
564184.00    4151437.00        0.00065
         564234.00    4151437.00        0.00053
564284.00    4151437.00        0.00044
         564334.00    4151437.00        0.00037
564384.00    4151437.00        0.00031
         564434.00    4151437.00        0.00027
564484.00    4151437.00        0.00024
         564534.00    4151437.00        0.00021
564584.00    4151437.00        0.00019
         564634.00    4151437.00        0.00017
564684.00    4151437.00        0.00015
         563684.00    4151487.00        0.00068
563734.00    4151487.00        0.00092
         563784.00    4151487.00        0.00124
563834.00    4151487.00        0.00155
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         563884.00    4151487.00        0.00137
563934.00    4151487.00        0.00101
         563984.00    4151487.00        0.00085
564034.00    4151487.00        0.00072
         564084.00    4151487.00        0.00060
564134.00    4151487.00        0.00050
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564184.00	4151487.00	0.00042	564234.00	4151487.00	0.00036
564284.00	4151487.00	0.00031	564334.00	4151487.00	0.00027
564384.00	4151487.00	0.00024	564434.00	4151487.00	0.00021
564484.00	4151487.00	0.00019	564534.00	4151487.00	0.00017
564584.00	4151487.00	0.00015	564634.00	4151487.00	0.00014
564684.00	4151487.00	0.00013	563684.00	4151537.00	0.00048
563734.00	4151537.00	0.00058	563784.00	4151537.00	0.00067
563834.00	4151537.00	0.00068	563884.00	4151537.00	0.00059
563934.00	4151537.00	0.00049	563984.00	4151537.00	0.00041
564034.00	4151537.00	0.00036	564084.00	4151537.00	0.00032
564134.00	4151537.00	0.00029	564184.00	4151537.00	0.00026

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         564234.00    4151537.00        0.00024
564284.00    4151537.00        0.00021
         564334.00    4151537.00        0.00019
564384.00    4151537.00        0.00018
         564434.00    4151537.00        0.00016
564484.00    4151537.00        0.00015
         564534.00    4151537.00        0.00013
564584.00    4151537.00        0.00012
         564634.00    4151537.00        0.00011
564684.00    4151537.00        0.00011
         563684.00    4151587.00        0.00034
563734.00    4151587.00        0.00039
         563784.00    4151587.00        0.00040
563834.00    4151587.00        0.00038
         563884.00    4151587.00        0.00034
563934.00    4151587.00        0.00030
         563984.00    4151587.00        0.00026
564034.00    4151587.00        0.00022
         564084.00    4151587.00        0.00020
564134.00    4151587.00        0.00018
         564184.00    4151587.00        0.00017
564234.00    4151587.00        0.00016
         564284.00    4151587.00        0.00015
564334.00    4151587.00        0.00014
         564384.00    4151587.00        0.00013
564434.00    4151587.00        0.00012
         564484.00    4151587.00        0.00011
564534.00    4151587.00        0.00010
         564584.00    4151587.00        0.00010
564634.00    4151587.00        0.00009
         564684.00    4151587.00        0.00009
563684.00    4151637.00        0.00025
         563734.00    4151637.00        0.00027
563784.00    4151637.00        0.00026
         563834.00    4151637.00        0.00025
563884.00    4151637.00        0.00023
         563934.00    4151637.00        0.00020
563984.00    4151637.00        0.00018
         564034.00    4151637.00        0.00016
564084.00    4151637.00        0.00014
         564134.00    4151637.00        0.00013
564184.00    4151637.00        0.00012
         564234.00    4151637.00        0.00011
564284.00    4151637.00        0.00010
         564334.00    4151637.00        0.00010
564384.00    4151637.00        0.00009
         564434.00    4151637.00        0.00009
564484.00    4151637.00        0.00008
         564534.00    4151637.00        0.00008
564584.00    4151637.00        0.00008
         564634.00    4151637.00        0.00007
564684.00    4151637.00        0.00007
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         563684.00    4151687.00        0.00019
563734.00    4151687.00        0.00019
         563784.00    4151687.00        0.00018
563834.00    4151687.00        0.00017
         563884.00    4151687.00        0.00016
563934.00    4151687.00        0.00015
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
563984.00	4151687.00	0.00014	564034.00	4151687.00	0.00012
564084.00	4151687.00	0.00011	564134.00	4151687.00	0.00010
564184.00	4151687.00	0.00009	564234.00	4151687.00	0.00008
564284.00	4151687.00	0.00008	564334.00	4151687.00	0.00007
564384.00	4151687.00	0.00007	564434.00	4151687.00	0.00007
564484.00	4151687.00	0.00006	564534.00	4151687.00	0.00006
564584.00	4151687.00	0.00006	564634.00	4151687.00	0.00006
564684.00	4151687.00	0.00006	564024.00	4150977.00	0.00084
564034.00	4150977.00	0.00086	564044.00	4150977.00	0.00087
564054.00	4150977.00	0.00089	564064.00	4150977.00	0.00091
564074.00	4150977.00	0.00092	564084.00	4150977.00	0.00093

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         564094.00    4150977.00        0.00094
564104.00    4150977.00        0.00094
         564114.00    4150977.00        0.00094
564124.00    4150977.00        0.00094
         564134.00    4150977.00        0.00094
564144.00    4150977.00        0.00092
         564024.00    4150987.00        0.00089
564034.00    4150987.00        0.00091
         564044.00    4150987.00        0.00093
564054.00    4150987.00        0.00095
         564064.00    4150987.00        0.00097
564074.00    4150987.00        0.00098
         564084.00    4150987.00        0.00099
564094.00    4150987.00        0.00100
         564104.00    4150987.00        0.00100
564114.00    4150987.00        0.00100
         564124.00    4150987.00        0.00100
564134.00    4150987.00        0.00099
         564144.00    4150987.00        0.00098
564024.00    4150997.00        0.00095
         564034.00    4150997.00        0.00097
564044.00    4150997.00        0.00099
         564054.00    4150997.00        0.00101
564064.00    4150997.00        0.00103
         564074.00    4150997.00        0.00104
564084.00    4150997.00        0.00106
         564094.00    4150997.00        0.00107
564104.00    4150997.00        0.00107
         564114.00    4150997.00        0.00107
564124.00    4150997.00        0.00106
         564134.00    4150997.00        0.00105
564144.00    4150997.00        0.00104
         564024.00    4151007.00        0.00101
564034.00    4151007.00        0.00103
         564044.00    4151007.00        0.00106
564054.00    4151007.00        0.00108
         564064.00    4151007.00        0.00110
564074.00    4151007.00        0.00112
         564084.00    4151007.00        0.00113
564094.00    4151007.00        0.00114
         564104.00    4151007.00        0.00114
564114.00    4151007.00        0.00114
         564124.00    4151007.00        0.00113
564134.00    4151007.00        0.00112
         564144.00    4151007.00        0.00110
564024.00    4151017.00        0.00108
         564034.00    4151017.00        0.00111
564044.00    4151017.00        0.00113
         564054.00    4151017.00        0.00116
564064.00    4151017.00        0.00118
         564074.00    4151017.00        0.00120
564084.00    4151017.00        0.00121
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```
         564094.00    4151017.00        0.00122
564104.00    4151017.00        0.00122
         564114.00    4151017.00        0.00122
564124.00    4151017.00        0.00121
         564134.00    4151017.00        0.00119
564144.00    4151017.00        0.00117
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564024.00	4151027.00	0.00116	564034.00	4151027.00	0.00119
564044.00	4151027.00	0.00122	564054.00	4151027.00	0.00124
564064.00	4151027.00	0.00127	564074.00	4151027.00	0.00129
564084.00	4151027.00	0.00130	564094.00	4151027.00	0.00131
564104.00	4151027.00	0.00131	564114.00	4151027.00	0.00131
564124.00	4151027.00	0.00130	564134.00	4151027.00	0.00128
564144.00	4151027.00	0.00125	564024.00	4151037.00	0.00124
564034.00	4151037.00	0.00128	564044.00	4151037.00	0.00131
564054.00	4151037.00	0.00134	564064.00	4151037.00	0.00137
564074.00	4151037.00	0.00139	564084.00	4151037.00	0.00141
564094.00	4151037.00	0.00141	564104.00	4151037.00	0.00142

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          564114.00    4151037.00        0.00141
564124.00    4151037.00        0.00139
          564134.00    4151037.00        0.00137
564144.00    4151037.00        0.00134
          564024.00    4151047.00        0.00134
564034.00    4151047.00        0.00138
          564044.00    4151047.00        0.00141
564054.00    4151047.00        0.00145
          564064.00    4151047.00        0.00148
564074.00    4151047.00        0.00150
          564084.00    4151047.00        0.00152
564094.00    4151047.00        0.00153
          564104.00    4151047.00        0.00153
564114.00    4151047.00        0.00152
          564124.00    4151047.00        0.00150
564134.00    4151047.00        0.00147
          564144.00    4151047.00        0.00143
564024.00    4151057.00        0.00145
          564034.00    4151057.00        0.00149
564044.00    4151057.00        0.00153
          564054.00    4151057.00        0.00157
564064.00    4151057.00        0.00161
          564074.00    4151057.00        0.00163
564084.00    4151057.00        0.00165
          564094.00    4151057.00        0.00166
564104.00    4151057.00        0.00166
          564114.00    4151057.00        0.00165
564124.00    4151057.00        0.00162
          564134.00    4151057.00        0.00158
564144.00    4151057.00        0.00154
          564024.00    4151067.00        0.00157
564034.00    4151067.00        0.00162
          564044.00    4151067.00        0.00167
564054.00    4151067.00        0.00171
          564064.00    4151067.00        0.00175
564074.00    4151067.00        0.00178
          564084.00    4151067.00        0.00181
564094.00    4151067.00        0.00182
          564104.00    4151067.00        0.00181
564114.00    4151067.00        0.00179
          564124.00    4151067.00        0.00176
564134.00    4151067.00        0.00171
          564144.00    4151067.00        0.00165
564107.97    4151217.98        0.00912
          564126.88    4151212.46        0.00720
564146.59    4151252.73        0.00310
          564179.25    4151251.60        0.00228
564210.51    4151177.54        0.00188
          564208.82    4151145.16        0.00170
564183.19    4151110.24        0.00176
          564162.92    4151096.45        0.00186
564148.56    4151092.79        0.00198
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          564126.03    4151098.98        0.00234
564088.27    4151128.81        0.00366
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564114.01	4151261.20	0.02793	564135.61	4151266.04	0.02266
564119.54	4151293.69	0.01352	564130.77	4151312.01	0.00943
564163.09	4151305.62	0.00862	564177.44	4151299.74	0.00861
564196.97	4151291.79	0.00859	564210.10	4151280.21	0.00964
564220.30	4151264.14	0.01280	564227.90	4151247.38	0.01890
564238.45	4151230.27	0.02728	564240.80	4151212.56	0.04048
564248.22	4151198.20	0.04750	564256.35	4151175.24	0.05522
564269.75	4151162.08	0.04842	564286.49	4151151.08	0.03928
564308.10	4151135.11	0.03023	564329.77	4151126.39	0.02362
564243.38	4151128.82	0.08250	564191.23	4151093.66	0.14856
564176.16	4151074.52	0.10883			

564232.45 4151110.30 0.09361
564235.20 4151074.64 0.06214
564247.20 4151064.67 0.04820
564261.03 4151054.91 0.03782
564279.33 4151048.00 0.02977
564092.05 4151261.51 0.02670
564077.80 4151271.65 0.02183
564075.89 4151298.68 0.01439
564092.20 4151320.13 0.01004
564079.00 4151329.27 0.00936
564064.02 4151340.14 0.00868
564053.40 4151343.64 0.00871
564038.54 4151353.00 0.00841
564026.30 4151362.62 0.00813
564014.58 4151371.30 0.00803
564004.15 4151384.96 0.00757
563986.52 4151397.01 0.00776
563975.05 4151409.36 0.00753
563812.99 4151377.74 0.01290
563786.51 4151378.74 0.00866
563747.29 4151364.63 0.00717
563732.55 4151348.64 0.00655
564252.63 4151299.36 0.00591
564270.08 4151278.80 0.00770
564280.78 4151263.04 0.00985
564299.64 4151254.31 0.01049
564320.76 4151241.36 0.01140
564338.49 4151199.69 0.01624
564223.05 4151086.47 0.08534
564223.05 4151100.23 0.10156
564207.53 4151007.19 0.03229
564220.50 4150997.85 0.02815
564231.22 4150986.27 0.02418
564270.64 4151004.25 0.02321
564293.29 4151001.31 0.01946
564316.46 4150997.68 0.01626
564190.93 4150987.82 0.02521
564158.55 4151084.80 0.13236
563684.00 4150687.00 0.00089
563734.00 4150687.00 0.00099
563784.00 4150687.00 0.00109
563834.00 4150687.00 0.00120
563884.00 4150687.00 0.00133
563934.00 4150687.00 0.00148
563984.00 4150687.00 0.00165
564034.00 4150687.00 0.00187
564084.00 4150687.00 0.00217
564134.00 4150687.00 0.00255
564184.00 4150687.00 0.00299
564234.00 4150687.00 0.00338
564284.00 4150687.00 0.00361
564334.00 4150687.00 0.00361

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564384.00    4150687.00        0.00342
         564434.00    4150687.00        0.00312
564484.00    4150687.00        0.00281
         564534.00    4150687.00        0.00252
564584.00    4150687.00        0.00227
         564634.00    4150687.00        0.00205
564684.00    4150687.00        0.00186
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
563684.00	4150737.00	0.00100	563734.00	4150737.00	0.00112
563784.00	4150737.00	0.00126	563834.00	4150737.00	0.00141
563884.00	4150737.00	0.00157	563934.00	4150737.00	0.00176
563984.00	4150737.00	0.00198	564034.00	4150737.00	0.00227
564084.00	4150737.00	0.00266	564134.00	4150737.00	0.00318
564184.00	4150737.00	0.00377	564234.00	4150737.00	0.00427
564284.00	4150737.00	0.00450	564334.00	4150737.00	0.00439
564384.00	4150737.00	0.00404	564434.00	4150737.00	0.00361
564484.00	4150737.00	0.00320	564534.00	4150737.00	0.00283
564584.00	4150737.00	0.00252	564634.00	4150737.00	0.00226
564684.00	4150737.00	0.00203			

563684.00 4150787.00 0.00111
563734.00 4150787.00 0.00127
563784.00 4150787.00 0.00146
563834.00 4150787.00 0.00166
563884.00 4150787.00 0.00189
563934.00 4150787.00 0.00214
563984.00 4150787.00 0.00244
564034.00 4150787.00 0.00282
564084.00 4150787.00 0.00334
564134.00 4150787.00 0.00407
564184.00 4150787.00 0.00490
564234.00 4150787.00 0.00554
564284.00 4150787.00 0.00571
564334.00 4150787.00 0.00540
564384.00 4150787.00 0.00482
564434.00 4150787.00 0.00421
564484.00 4150787.00 0.00366
564534.00 4150787.00 0.00320
564584.00 4150787.00 0.00281
564634.00 4150787.00 0.00249
564684.00 4150787.00 0.00221
563684.00 4150837.00 0.00124
563734.00 4150837.00 0.00144
563784.00 4150837.00 0.00169
563834.00 4150837.00 0.00197
563884.00 4150837.00 0.00230
563934.00 4150837.00 0.00266
563984.00 4150837.00 0.00307
564034.00 4150837.00 0.00359
564084.00 4150837.00 0.00433
564134.00 4150837.00 0.00540
564184.00 4150837.00 0.00661
564234.00 4150837.00 0.00743
564284.00 4150837.00 0.00742
564334.00 4150837.00 0.00672
564384.00 4150837.00 0.00579
564434.00 4150837.00 0.00492
564484.00 4150837.00 0.00420
564534.00 4150837.00 0.00361
564584.00 4150837.00 0.00312
564634.00 4150837.00 0.00272
564684.00 4150837.00 0.00238
563684.00 4150887.00 0.00136
563734.00 4150887.00 0.00162
563784.00 4150887.00 0.00195
563834.00 4150887.00 0.00235
563884.00 4150887.00 0.00282
563934.00 4150887.00 0.00337
563984.00 4150887.00 0.00399
564034.00 4150887.00 0.00475
564084.00 4150887.00 0.00585
564134.00 4150887.00 0.00751

```
564184.00    4150887.00        0.00940
         564234.00    4150887.00        0.01039
564284.00    4150887.00        0.00987
         564334.00    4150887.00        0.00847
564384.00    4150887.00        0.00699
         564434.00    4150887.00        0.00577
564484.00    4150887.00        0.00481
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564534.00	4150887.00	0.00405	564584.00	4150887.00	0.00344
564634.00	4150887.00	0.00295	564684.00	4150887.00	0.00255
563684.00	4150937.00	0.00149	563734.00	4150937.00	0.00181
563784.00	4150937.00	0.00222	563834.00	4150937.00	0.00277
563884.00	4150937.00	0.00347	563934.00	4150937.00	0.00433
563984.00	4150937.00	0.00535	564034.00	4150937.00	0.00659
564084.00	4150937.00	0.00835	564134.00	4150937.00	0.01117
564184.00	4150937.00	0.01436	564234.00	4150937.00	0.01532
564284.00	4150937.00	0.01348	564334.00	4150937.00	0.01077
564384.00	4150937.00	0.00847	564434.00	4150937.00	0.00675
564484.00	4150937.00	0.00547			

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564534.00    4150937.00        0.00450
         564584.00    4150937.00        0.00375
564634.00    4150937.00        0.00317
         564684.00    4150937.00        0.00270
563684.00    4150987.00        0.00162
         563734.00    4150987.00        0.00200
563784.00    4150987.00        0.00251
         563834.00    4150987.00        0.00322
563884.00    4150987.00        0.00421
         563934.00    4150987.00        0.00556
563984.00    4150987.00        0.00736
         564034.00    4150987.00        0.00971
564084.00    4150987.00        0.01300
         564134.00    4150987.00        0.01845
564184.00    4150987.00        0.02453
         564234.00    4150987.00        0.02415
564284.00    4150987.00        0.01881
         564334.00    4150987.00        0.01375
564384.00    4150987.00        0.01021
         564434.00    4150987.00        0.00781
564484.00    4150987.00        0.00614
         564534.00    4150987.00        0.00493
564584.00    4150987.00        0.00404
         564634.00    4150987.00        0.00336
564684.00    4150987.00        0.00284
         563684.00    4151037.00        0.00177
563734.00    4151037.00        0.00220
         563784.00    4151037.00        0.00281
563834.00    4151037.00        0.00369
         563884.00    4151037.00        0.00499
563934.00    4151037.00        0.00699
         563984.00    4151037.00        0.01011
564034.00    4151037.00        0.01504
         564084.00    4151037.00        0.02307
564134.00    4151037.00        0.03693
         564184.00    4151037.00        0.05061
564234.00    4151037.00        0.04100
         564284.00    4151037.00        0.02645
564334.00    4151037.00        0.01734
         564384.00    4151037.00        0.01208
564434.00    4151037.00        0.00885
         564484.00    4151037.00        0.00675
564534.00    4151037.00        0.00530
         564584.00    4151037.00        0.00427
564634.00    4151037.00        0.00351
         564684.00    4151037.00        0.00294
563684.00    4151087.00        0.00192
         563734.00    4151087.00        0.00242
563784.00    4151087.00        0.00313
         563834.00    4151087.00        0.00418
563884.00    4151087.00        0.00579
         563934.00    4151087.00        0.00845
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563984.00    4151087.00        0.01335
         564034.00    4151087.00        0.02322
564084.00    4151087.00        0.04587
         564134.00    4151087.00        0.10809
564184.00    4151087.00        0.13833
         564234.00    4151087.00        0.07255
564284.00    4151087.00        0.03599
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564334.00	4151087.00	0.02101	564384.00	4151087.00	0.01374
564434.00	4151087.00	0.00968	564484.00	4151087.00	0.00718
564534.00	4151087.00	0.00554	564584.00	4151087.00	0.00441
564634.00	4151087.00	0.00359	564684.00	4151087.00	0.00298
563684.00	4151137.00	0.00208	563734.00	4151137.00	0.00264
563784.00	4151137.00	0.00346	563834.00	4151137.00	0.00468
563884.00	4151137.00	0.00654	563934.00	4151137.00	0.00972
563984.00	4151137.00	0.01611	564034.00	4151137.00	0.03218
564084.00	4151137.00	0.08596	564234.00	4151137.00	0.10181
564284.00	4151137.00	0.04156	564334.00	4151137.00	0.02256
564384.00	4151137.00	0.01421			

```
564434.00    4151137.00        0.00980
         564484.00    4151137.00        0.00717
564534.00    4151137.00        0.00549
         564584.00    4151137.00        0.00434
564634.00    4151137.00        0.00352
         564684.00    4151137.00        0.00291
563684.00    4151187.00        0.00222
         563734.00    4151187.00        0.00286
563784.00    4151187.00        0.00382
         563834.00    4151187.00        0.00519
563884.00    4151187.00        0.00715
         563934.00    4151187.00        0.01054
563984.00    4151187.00        0.01755
         564034.00    4151187.00        0.03533
564084.00    4151187.00        0.09676
         564234.00    4151187.00        0.07315
564284.00    4151187.00        0.03265
         564334.00    4151187.00        0.01871
564384.00    4151187.00        0.01220
         564434.00    4151187.00        0.00860
564484.00    4151187.00        0.00640
         564534.00    4151187.00        0.00496
564584.00    4151187.00        0.00396
         564634.00    4151187.00        0.00323
564684.00    4151187.00        0.00269
         563684.00    4151237.00        0.00239
563734.00    4151237.00        0.00318
         563784.00    4151237.00        0.00441
563834.00    4151237.00        0.00595
         563884.00    4151237.00        0.00785
563934.00    4151237.00        0.01135
         563984.00    4151237.00        0.01949
564034.00    4151237.00        0.03391
         564084.00    4151237.00        0.04284
564134.00    4151237.00        0.06048
         564234.00    4151237.00        0.02389
564284.00    4151237.00        0.01577
         564334.00    4151237.00        0.01113
564384.00    4151237.00        0.00822
         564434.00    4151237.00        0.00630
564484.00    4151237.00        0.00496
         564534.00    4151237.00        0.00400
564584.00    4151237.00        0.00329
         564634.00    4151237.00        0.00275
564684.00    4151237.00        0.00233
         563684.00    4151287.00        0.00267
563734.00    4151287.00        0.00411
         563784.00    4151287.00        0.00652
563834.00    4151287.00        0.00814
         563884.00    4151287.00        0.00961
563934.00    4151287.00        0.01460
         563984.00    4151287.00        0.02542
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564034.00    4151287.00        0.02018
         564084.00    4151287.00        0.01691
564134.00    4151287.00        0.01415
         564184.00    4151287.00        0.01003
564234.00    4151287.00        0.00768
         564284.00    4151287.00        0.00640
564334.00    4151287.00        0.00547
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564384.00	4151287.00	0.00467	564434.00	4151287.00	0.00398
564484.00	4151287.00	0.00340	564534.00	4151287.00	0.00291
564584.00	4151287.00	0.00251	564634.00	4151287.00	0.00217
564684.00	4151287.00	0.00189	563684.00	4151337.00	0.00284
563734.00	4151337.00	0.00687	563784.00	4151337.00	0.01486
563834.00	4151337.00	0.01587	563884.00	4151337.00	0.01377
563934.00	4151337.00	0.02116	563984.00	4151337.00	0.01532
564034.00	4151337.00	0.01022	564084.00	4151337.00	0.00833
564134.00	4151337.00	0.00666	564184.00	4151337.00	0.00527
564234.00	4151337.00	0.00418	564284.00	4151337.00	0.00342
564334.00	4151337.00	0.00296			

564384.00 4151337.00 0.00266
564434.00 4151337.00 0.00242
564484.00 4151337.00 0.00220
564534.00 4151337.00 0.00199
564584.00 4151337.00 0.00180
564634.00 4151337.00 0.00162
564684.00 4151337.00 0.00147
563684.00 4151387.00 0.00242
563734.00 4151387.00 0.00416
563784.00 4151387.00 0.00726
563834.00 4151387.00 0.01317
563884.00 4151387.00 0.01995
563934.00 4151387.00 0.01622
563984.00 4151387.00 0.00887
564034.00 4151387.00 0.00615
564084.00 4151387.00 0.00487
564134.00 4151387.00 0.00397
564184.00 4151387.00 0.00331
564234.00 4151387.00 0.00276
564284.00 4151387.00 0.00229
564334.00 4151387.00 0.00194
564384.00 4151387.00 0.00171
564434.00 4151387.00 0.00156
564484.00 4151387.00 0.00145
564534.00 4151387.00 0.00136
564584.00 4151387.00 0.00127
564634.00 4151387.00 0.00118
564684.00 4151387.00 0.00110
563684.00 4151437.00 0.00188
563734.00 4151437.00 0.00259
563784.00 4151437.00 0.00380
563834.00 4151437.00 0.00661
563884.00 4151437.00 0.00856
563934.00 4151437.00 0.00702
563984.00 4151437.00 0.00471
564034.00 4151437.00 0.00368
564084.00 4151437.00 0.00304
564134.00 4151437.00 0.00258
564184.00 4151437.00 0.00224
564234.00 4151437.00 0.00193
564284.00 4151437.00 0.00166
564334.00 4151437.00 0.00142
564384.00 4151437.00 0.00124
564434.00 4151437.00 0.00111
564484.00 4151437.00 0.00102
564534.00 4151437.00 0.00096
564584.00 4151437.00 0.00090
564634.00 4151437.00 0.00086
564684.00 4151437.00 0.00082
563684.00 4151487.00 0.00147
563734.00 4151487.00 0.00184
563784.00 4151487.00 0.00231

```
563834.00    4151487.00        0.00278
         563884.00    4151487.00        0.00274
563934.00    4151487.00        0.00247
         563984.00    4151487.00        0.00232
564034.00    4151487.00        0.00213
         564084.00    4151487.00        0.00192
564134.00    4151487.00        0.00173
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564184.00	4151487.00	0.00156	564234.00	4151487.00	0.00140
564284.00	4151487.00	0.00123	564334.00	4151487.00	0.00108
564384.00	4151487.00	0.00095	564434.00	4151487.00	0.00084
564484.00	4151487.00	0.00077	564534.00	4151487.00	0.00071
564584.00	4151487.00	0.00067	564634.00	4151487.00	0.00064
564684.00	4151487.00	0.00061	563684.00	4151537.00	0.00119
563734.00	4151537.00	0.00140	563784.00	4151537.00	0.00159
563834.00	4151537.00	0.00170	563884.00	4151537.00	0.00167
563934.00	4151537.00	0.00159	563984.00	4151537.00	0.00148
564034.00	4151537.00	0.00138	564084.00	4151537.00	0.00129
564134.00	4151537.00	0.00120			

```
564184.00    4151537.00        0.00112
         564234.00    4151537.00        0.00103
564284.00    4151537.00        0.00094
         564334.00    4151537.00        0.00084
564384.00    4151537.00        0.00075
         564434.00    4151537.00        0.00067
564484.00    4151537.00        0.00061
         564534.00    4151537.00        0.00056
564584.00    4151537.00        0.00052
         564634.00    4151537.00        0.00049
564684.00    4151537.00        0.00047
         563684.00    4151587.00        0.00099
563734.00    4151587.00        0.00111
         563784.00    4151587.00        0.00119
563834.00    4151587.00        0.00122
         563884.00    4151587.00        0.00120
563934.00    4151587.00        0.00115
         563984.00    4151587.00        0.00107
564034.00    4151587.00        0.00100
         564084.00    4151587.00        0.00094
564134.00    4151587.00        0.00089
         564184.00    4151587.00        0.00084
564234.00    4151587.00        0.00079
         564284.00    4151587.00        0.00073
564334.00    4151587.00        0.00067
         564384.00    4151587.00        0.00061
564434.00    4151587.00        0.00055
         564484.00    4151587.00        0.00050
564534.00    4151587.00        0.00045
         564584.00    4151587.00        0.00042
564634.00    4151587.00        0.00040
         564684.00    4151587.00        0.00038
563684.00    4151637.00        0.00084
         563734.00    4151637.00        0.00090
563784.00    4151637.00        0.00093
         563834.00    4151637.00        0.00093
563884.00    4151637.00        0.00091
         563934.00    4151637.00        0.00087
563984.00    4151637.00        0.00082
         564034.00    4151637.00        0.00077
564084.00    4151637.00        0.00073
         564134.00    4151637.00        0.00069
564184.00    4151637.00        0.00066
         564234.00    4151637.00        0.00062
564284.00    4151637.00        0.00059
         564334.00    4151637.00        0.00054
564384.00    4151637.00        0.00050
         564434.00    4151637.00        0.00046
564484.00    4151637.00        0.00042
         564534.00    4151637.00        0.00038
564584.00    4151637.00        0.00035
         564634.00    4151637.00        0.00033
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564684.00    4151637.00        0.00031
         563684.00    4151687.00        0.00071
563734.00    4151687.00        0.00074
         563784.00    4151687.00        0.00075
563834.00    4151687.00        0.00074
         563884.00    4151687.00        0.00072
563934.00    4151687.00        0.00069
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
563984.00	4151687.00	0.00065	564034.00	4151687.00	0.00062
564084.00	4151687.00	0.00059	564134.00	4151687.00	0.00056
564184.00	4151687.00	0.00054	564234.00	4151687.00	0.00051
564284.00	4151687.00	0.00048	564334.00	4151687.00	0.00045
564384.00	4151687.00	0.00042	564434.00	4151687.00	0.00039
564484.00	4151687.00	0.00036	564534.00	4151687.00	0.00033
564584.00	4151687.00	0.00030	564634.00	4151687.00	0.00028
564684.00	4151687.00	0.00026	564024.00	4150977.00	0.00849
564034.00	4150977.00	0.00894	564044.00	4150977.00	0.00942
564054.00	4150977.00	0.00994	564064.00	4150977.00	0.01050
564074.00	4150977.00	0.01111			

564084.00 4150977.00 0.01179
564094.00 4150977.00 0.01255
564104.00 4150977.00 0.01339
564114.00 4150977.00 0.01434
564124.00 4150977.00 0.01538
564134.00 4150977.00 0.01650
564144.00 4150977.00 0.01767
564024.00 4150987.00 0.00919
564034.00 4150987.00 0.00971
564044.00 4150987.00 0.01027
564054.00 4150987.00 0.01087
564064.00 4150987.00 0.01151
564074.00 4150987.00 0.01222
564084.00 4150987.00 0.01300
564094.00 4150987.00 0.01387
564104.00 4150987.00 0.01484
564114.00 4150987.00 0.01594
564124.00 4150987.00 0.01714
564134.00 4150987.00 0.01845
564144.00 4150987.00 0.01983
564024.00 4150997.00 0.00996
564034.00 4150997.00 0.01057
564044.00 4150997.00 0.01122
564054.00 4150997.00 0.01192
564064.00 4150997.00 0.01267
564074.00 4150997.00 0.01349
564084.00 4150997.00 0.01440
564094.00 4150997.00 0.01542
564104.00 4150997.00 0.01655
564114.00 4150997.00 0.01783
564124.00 4150997.00 0.01924
564134.00 4150997.00 0.02079
564144.00 4150997.00 0.02241
564024.00 4151007.00 0.01081
564034.00 4151007.00 0.01152
564044.00 4151007.00 0.01229
564054.00 4151007.00 0.01311
564064.00 4151007.00 0.01401
564074.00 4151007.00 0.01498
564084.00 4151007.00 0.01605
564094.00 4151007.00 0.01725
564104.00 4151007.00 0.01859
564114.00 4151007.00 0.02009
564124.00 4151007.00 0.02177
564134.00 4151007.00 0.02361
564144.00 4151007.00 0.02555
564024.00 4151017.00 0.01174
564034.00 4151017.00 0.01258
564044.00 4151017.00 0.01349
564054.00 4151017.00 0.01448
564064.00 4151017.00 0.01555
564074.00 4151017.00 0.01671

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564084.00    4151017.00        0.01800
         564094.00    4151017.00        0.01943
564104.00    4151017.00        0.02103
         564114.00    4151017.00        0.02284
564124.00    4151017.00        0.02486
         564134.00    4151017.00        0.02708
564144.00    4151017.00        0.02943
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564024.00	4151027.00	0.01276	564034.00	4151027.00	0.01376
564044.00	4151027.00	0.01484	564054.00	4151027.00	0.01602
564064.00	4151027.00	0.01732	564074.00	4151027.00	0.01874
564084.00	4151027.00	0.02031	564094.00	4151027.00	0.02206
564104.00	4151027.00	0.02402	564114.00	4151027.00	0.02621
564124.00	4151027.00	0.02869	564134.00	4151027.00	0.03141
564144.00	4151027.00	0.03431	564024.00	4151037.00	0.01387
564034.00	4151037.00	0.01504	564044.00	4151037.00	0.01634
564054.00	4151037.00	0.01777	564064.00	4151037.00	0.01935
564074.00	4151037.00	0.02111	564084.00	4151037.00	0.02307
564094.00	4151037.00	0.02525			

564104.00 4151037.00 0.02769
564114.00 4151037.00 0.03043
564124.00 4151037.00 0.03351
564134.00 4151037.00 0.03693
564144.00 4151037.00 0.04056
564024.00 4151047.00 0.01506
564034.00 4151047.00 0.01645
564044.00 4151047.00 0.01799
564054.00 4151047.00 0.01973
564064.00 4151047.00 0.02167
564074.00 4151047.00 0.02387
564084.00 4151047.00 0.02634
564094.00 4151047.00 0.02913
564104.00 4151047.00 0.03225
564114.00 4151047.00 0.03577
564124.00 4151047.00 0.03973
564134.00 4151047.00 0.04411
564144.00 4151047.00 0.04876
564024.00 4151057.00 0.01634
564034.00 4151057.00 0.01797
564044.00 4151057.00 0.01981
564054.00 4151057.00 0.02190
564064.00 4151057.00 0.02430
564074.00 4151057.00 0.02705
564084.00 4151057.00 0.03022
564094.00 4151057.00 0.03385
564104.00 4151057.00 0.03797
564114.00 4151057.00 0.04263
564124.00 4151057.00 0.04788
564134.00 4151057.00 0.05369
564144.00 4151057.00 0.05982
564024.00 4151067.00 0.01770
564034.00 4151067.00 0.01961
564044.00 4151067.00 0.02179
564054.00 4151067.00 0.02431
564064.00 4151067.00 0.02724
564074.00 4151067.00 0.03069
564084.00 4151067.00 0.03476
564094.00 4151067.00 0.03955
564104.00 4151067.00 0.04512
564114.00 4151067.00 0.05149
564124.00 4151067.00 0.05872
564134.00 4151067.00 0.06675
564144.00 4151067.00 0.07508
564107.97 4151217.98 0.08576
564126.88 4151212.46 0.12262
564146.59 4151252.73 0.03046
564179.25 4151251.60 0.02307
564210.51 4151177.54 0.13847
564208.82 4151145.16 0.17226
564183.19 4151110.24 0.18580
564162.92 4151096.45 0.16212

564148.56   4151092.79   0.14682
         564126.03   4151098.98   0.12146
564088.27   4151128.81   0.08450

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564114.01	4151261.20	0.00000	564135.61	4151266.04	0.00000
564119.54	4151293.69	0.00000	564130.77	4151312.01	0.00000
564163.09	4151305.62	0.00000	564177.44	4151299.74	0.00000
564196.97	4151291.79	0.00000	564210.10	4151280.21	0.00000
564220.30	4151264.14	0.00000	564227.90	4151247.38	0.00000
564238.45	4151230.27	0.00000	564240.80	4151212.56	0.00000
564248.22	4151198.20	0.00000	564256.35	4151175.24	0.00000
564269.75	4151162.08	0.00000	564286.49	4151151.08	0.00000
564308.10	4151135.11	0.00000	564329.77	4151126.39	0.00000
564243.38	4151128.82	0.00000	564191.23	4151093.66	0.00000
564176.16	4151074.52	0.00000			

564232.45   4151110.30   0.00000
         564235.20   4151074.64   0.00000
564247.20   4151064.67   0.00000
         564261.03   4151054.91   0.00000
564279.33   4151048.00   0.00000
         564092.05   4151261.51   0.00000
564077.80   4151271.65   0.00000
         564075.89   4151298.68   0.00000
564092.20   4151320.13   0.00000
         564079.00   4151329.27   0.00000
564064.02   4151340.14   0.00000
         564053.40   4151343.64   0.00000
564038.54   4151353.00   0.00000
         564026.30   4151362.62   0.00000
564014.58   4151371.30   0.00000
         564004.15   4151384.96   0.00000
563986.52   4151397.01   0.00000
         563975.05   4151409.36   0.00000
563812.99   4151377.74   0.00000
         563786.51   4151378.74   0.00000
563747.29   4151364.63   0.00000
         563732.55   4151348.64   0.00000
564252.63   4151299.36   0.00000
         564270.08   4151278.80   0.00000
564280.78   4151263.04   0.00000
         564299.64   4151254.31   0.00000
564320.76   4151241.36   0.00000
         564338.49   4151199.69   0.00000
564223.05   4151086.47   0.00000
         564223.05   4151100.23   0.00000
564207.53   4151007.19   0.00000
         564220.50   4150997.85   0.00000
564231.22   4150986.27   0.00000
         564270.64   4151004.25   0.00000
564293.29   4151001.31   0.00000
         564316.46   4150997.68   0.00000
564190.93   4150987.82   0.00000
         564158.55   4151084.80   0.00000
563684.00   4150687.00   0.00000
         563734.00   4150687.00   0.00000
563784.00   4150687.00   0.00000
         563834.00   4150687.00   0.00000
563884.00   4150687.00   0.00000
         563934.00   4150687.00   0.00000
563984.00   4150687.00   0.00000
         564034.00   4150687.00   0.00000
564084.00   4150687.00   0.00000
         564134.00   4150687.00   0.00000
564184.00   4150687.00   0.00000
         564234.00   4150687.00   0.00000
564284.00   4150687.00   0.00000
         564334.00   4150687.00   0.00000

```
564384.00    4150687.00        0.00000
         564434.00    4150687.00        0.00000
564484.00    4150687.00        0.00000
         564534.00    4150687.00        0.00000
564584.00    4150687.00        0.00000
         564634.00    4150687.00        0.00000
564684.00    4150687.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
563684.00	4150737.00	0.00000	563734.00	4150737.00	0.00000
563784.00	4150737.00	0.00000	563834.00	4150737.00	0.00000
563884.00	4150737.00	0.00000	563934.00	4150737.00	0.00000
563984.00	4150737.00	0.00000	564034.00	4150737.00	0.00000
564084.00	4150737.00	0.00000	564134.00	4150737.00	0.00000
564184.00	4150737.00	0.00000	564234.00	4150737.00	0.00000
564284.00	4150737.00	0.00000	564334.00	4150737.00	0.00000
564384.00	4150737.00	0.00000	564434.00	4150737.00	0.00000
564484.00	4150737.00	0.00000	564534.00	4150737.00	0.00000
564584.00	4150737.00	0.00000	564634.00	4150737.00	0.00000
564684.00	4150737.00	0.00000			

```
563684.00    4150787.00        0.00000
         563734.00    4150787.00        0.00000
563784.00    4150787.00        0.00000
         563834.00    4150787.00        0.00000
563884.00    4150787.00        0.00000
         563934.00    4150787.00        0.00000
563984.00    4150787.00        0.00000
         564034.00    4150787.00        0.00000
564084.00    4150787.00        0.00000
         564134.00    4150787.00        0.00000
564184.00    4150787.00        0.00000
         564234.00    4150787.00        0.00000
564284.00    4150787.00        0.00000
         564334.00    4150787.00        0.00000
564384.00    4150787.00        0.00000
         564434.00    4150787.00        0.00000
564484.00    4150787.00        0.00000
         564534.00    4150787.00        0.00000
564584.00    4150787.00        0.00000
         564634.00    4150787.00        0.00000
564684.00    4150787.00        0.00000
         563684.00    4150837.00        0.00000
563734.00    4150837.00        0.00000
         563784.00    4150837.00        0.00000
563834.00    4150837.00        0.00000
         563884.00    4150837.00        0.00000
563934.00    4150837.00        0.00000
         563984.00    4150837.00        0.00000
564034.00    4150837.00        0.00000
         564084.00    4150837.00        0.00000
564134.00    4150837.00        0.00000
         564184.00    4150837.00        0.00000
564234.00    4150837.00        0.00000
         564284.00    4150837.00        0.00000
564334.00    4150837.00        0.00000
         564384.00    4150837.00        0.00000
564434.00    4150837.00        0.00000
         564484.00    4150837.00        0.00000
564534.00    4150837.00        0.00000
         564584.00    4150837.00        0.00000
564634.00    4150837.00        0.00000
         564684.00    4150837.00        0.00000
563684.00    4150887.00        0.00000
         563734.00    4150887.00        0.00000
563784.00    4150887.00        0.00000
         563834.00    4150887.00        0.00000
563884.00    4150887.00        0.00000
         563934.00    4150887.00        0.00000
563984.00    4150887.00        0.00000
         564034.00    4150887.00        0.00000
564084.00    4150887.00        0.00000
         564134.00    4150887.00        0.00000
```

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564184.00    4150887.00        0.00000
         564234.00    4150887.00        0.00000
564284.00    4150887.00        0.00000
         564334.00    4150887.00        0.00000
564384.00    4150887.00        0.00000
         564434.00    4150887.00        0.00000
564484.00    4150887.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564534.00	4150887.00	0.00000	564584.00	4150887.00	0.00000
564634.00	4150887.00	0.00000	564684.00	4150887.00	0.00000
563684.00	4150937.00	0.00000	563734.00	4150937.00	0.00000
563784.00	4150937.00	0.00000	563834.00	4150937.00	0.00000
563884.00	4150937.00	0.00000	563934.00	4150937.00	0.00000
563984.00	4150937.00	0.00000	564034.00	4150937.00	0.00000
564084.00	4150937.00	0.00000	564134.00	4150937.00	0.00000
564184.00	4150937.00	0.00000	564234.00	4150937.00	0.00000
564284.00	4150937.00	0.00000	564334.00	4150937.00	0.00000
564384.00	4150937.00	0.00000	564434.00	4150937.00	0.00000
564484.00	4150937.00	0.00000			

564534.00 4150937.00 0.00000
564584.00 4150937.00 0.00000
564634.00 4150937.00 0.00000
564684.00 4150937.00 0.00000
563684.00 4150987.00 0.00000
563734.00 4150987.00 0.00000
563784.00 4150987.00 0.00000
563834.00 4150987.00 0.00000
563884.00 4150987.00 0.00000
563934.00 4150987.00 0.00000
563984.00 4150987.00 0.00000
564034.00 4150987.00 0.00000
564084.00 4150987.00 0.00000
564134.00 4150987.00 0.00000
564184.00 4150987.00 0.00000
564234.00 4150987.00 0.00000
564284.00 4150987.00 0.00000
564334.00 4150987.00 0.00000
564384.00 4150987.00 0.00000
564434.00 4150987.00 0.00000
564484.00 4150987.00 0.00000
564534.00 4150987.00 0.00000
564584.00 4150987.00 0.00000
564634.00 4150987.00 0.00000
564684.00 4150987.00 0.00000
563684.00 4151037.00 0.00000
563734.00 4151037.00 0.00000
563784.00 4151037.00 0.00000
563834.00 4151037.00 0.00000
563884.00 4151037.00 0.00000
563934.00 4151037.00 0.00000
563984.00 4151037.00 0.00000
564034.00 4151037.00 0.00000
564084.00 4151037.00 0.00000
564134.00 4151037.00 0.00000
564184.00 4151037.00 0.00000
564234.00 4151037.00 0.00000
564284.00 4151037.00 0.00000
564334.00 4151037.00 0.00000
564384.00 4151037.00 0.00000
564434.00 4151037.00 0.00000
564484.00 4151037.00 0.00000
564534.00 4151037.00 0.00000
564584.00 4151037.00 0.00000
564634.00 4151037.00 0.00000
564684.00 4151037.00 0.00000
563684.00 4151087.00 0.00000
563734.00 4151087.00 0.00000
563784.00 4151087.00 0.00000
563834.00 4151087.00 0.00000
563884.00 4151087.00 0.00000
563934.00 4151087.00 0.00000

```
563984.00    4151087.00        0.00000
         564034.00    4151087.00        0.00000
564084.00    4151087.00        0.00000
         564134.00    4151087.00        0.00000
564184.00    4151087.00        0.00000
         564234.00    4151087.00        0.00000
564284.00    4151087.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564334.00	4151087.00	0.00000	564384.00	4151087.00	0.00000
564434.00	4151087.00	0.00000	564484.00	4151087.00	0.00000
564534.00	4151087.00	0.00000	564584.00	4151087.00	0.00000
564634.00	4151087.00	0.00000	564684.00	4151087.00	0.00000
563684.00	4151137.00	0.00000	563734.00	4151137.00	0.00000
563784.00	4151137.00	0.00000	563834.00	4151137.00	0.00000
563884.00	4151137.00	0.00000	563934.00	4151137.00	0.00000
563984.00	4151137.00	0.00000	564034.00	4151137.00	0.00000
564084.00	4151137.00	0.00000	564234.00	4151137.00	0.00000
564284.00	4151137.00	0.00000	564334.00	4151137.00	0.00000
564384.00	4151137.00	0.00000			

564434.00   4151137.00   0.00000
         564484.00   4151137.00   0.00000
564534.00   4151137.00   0.00000
         564584.00   4151137.00   0.00000
564634.00   4151137.00   0.00000
         564684.00   4151137.00   0.00000
563684.00   4151187.00   0.00000
         563734.00   4151187.00   0.00000
563784.00   4151187.00   0.00000
         563834.00   4151187.00   0.00000
563884.00   4151187.00   0.00000
         563934.00   4151187.00   0.00000
563984.00   4151187.00   0.00000
         564034.00   4151187.00   0.00000
564084.00   4151187.00   0.00000
         564234.00   4151187.00   0.00000
564284.00   4151187.00   0.00000
         564334.00   4151187.00   0.00000
564384.00   4151187.00   0.00000
         564434.00   4151187.00   0.00000
564484.00   4151187.00   0.00000
         564534.00   4151187.00   0.00000
564584.00   4151187.00   0.00000
         564634.00   4151187.00   0.00000
564684.00   4151187.00   0.00000
         563684.00   4151237.00   0.00000
563734.00   4151237.00   0.00000
         563784.00   4151237.00   0.00000
563834.00   4151237.00   0.00000
         563884.00   4151237.00   0.00000
563934.00   4151237.00   0.00000
         563984.00   4151237.00   0.00000
564034.00   4151237.00   0.00000
         564084.00   4151237.00   0.00000
564134.00   4151237.00   0.00000
         564234.00   4151237.00   0.00000
564284.00   4151237.00   0.00000
         564334.00   4151237.00   0.00000
564384.00   4151237.00   0.00000
         564434.00   4151237.00   0.00000
564484.00   4151237.00   0.00000
         564534.00   4151237.00   0.00000
564584.00   4151237.00   0.00000
         564634.00   4151237.00   0.00000
564684.00   4151237.00   0.00000
         563684.00   4151287.00   0.00000
563734.00   4151287.00   0.00000
         563784.00   4151287.00   0.00000
563834.00   4151287.00   0.00000
         563884.00   4151287.00   0.00000
563934.00   4151287.00   0.00000
         563984.00   4151287.00   0.00000

```
564034.00    4151287.00        0.00000
         564084.00    4151287.00        0.00000
564134.00    4151287.00        0.00000
         564184.00    4151287.00        0.00000
564234.00    4151287.00        0.00000
         564284.00    4151287.00        0.00000
564334.00    4151287.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564384.00	4151287.00	0.00000	564434.00	4151287.00	0.00000
564484.00	4151287.00	0.00000	564534.00	4151287.00	0.00000
564584.00	4151287.00	0.00000	564634.00	4151287.00	0.00000
564684.00	4151287.00	0.00000	563684.00	4151337.00	0.00000
563734.00	4151337.00	0.00000	563784.00	4151337.00	0.00000
563834.00	4151337.00	0.00000	563884.00	4151337.00	0.00000
563934.00	4151337.00	0.00000	563984.00	4151337.00	0.00000
564034.00	4151337.00	0.00000	564084.00	4151337.00	0.00000
564134.00	4151337.00	0.00000	564184.00	4151337.00	0.00000
564234.00	4151337.00	0.00000	564284.00	4151337.00	0.00000
564334.00	4151337.00	0.00000			

```
564384.00    4151337.00        0.00000
         564434.00    4151337.00        0.00000
564484.00    4151337.00        0.00000
         564534.00    4151337.00        0.00000
564584.00    4151337.00        0.00000
         564634.00    4151337.00        0.00000
564684.00    4151337.00        0.00000
         563684.00    4151387.00        0.00000
563734.00    4151387.00        0.00000
         563784.00    4151387.00        0.00000
563834.00    4151387.00        0.00000
         563884.00    4151387.00        0.00000
563934.00    4151387.00        0.00000
         563984.00    4151387.00        0.00000
564034.00    4151387.00        0.00000
         564084.00    4151387.00        0.00000
564134.00    4151387.00        0.00000
         564184.00    4151387.00        0.00000
564234.00    4151387.00        0.00000
         564284.00    4151387.00        0.00000
564334.00    4151387.00        0.00000
         564384.00    4151387.00        0.00000
564434.00    4151387.00        0.00000
         564484.00    4151387.00        0.00000
564534.00    4151387.00        0.00000
         564584.00    4151387.00        0.00000
564634.00    4151387.00        0.00000
         564684.00    4151387.00        0.00000
563684.00    4151437.00        0.00000
         563734.00    4151437.00        0.00000
563784.00    4151437.00        0.00000
         563834.00    4151437.00        0.00000
563884.00    4151437.00        0.00000
         563934.00    4151437.00        0.00000
563984.00    4151437.00        0.00000
         564034.00    4151437.00        0.00000
564084.00    4151437.00        0.00000
         564134.00    4151437.00        0.00000
564184.00    4151437.00        0.00000
         564234.00    4151437.00        0.00000
564284.00    4151437.00        0.00000
         564334.00    4151437.00        0.00000
564384.00    4151437.00        0.00000
         564434.00    4151437.00        0.00000
564484.00    4151437.00        0.00000
         564534.00    4151437.00        0.00000
564584.00    4151437.00        0.00000
         564634.00    4151437.00        0.00000
564684.00    4151437.00        0.00000
         563684.00    4151487.00        0.00000
563734.00    4151487.00        0.00000
         563784.00    4151487.00        0.00000
```

```
563834.00    4151487.00        0.00000
         563884.00    4151487.00        0.00000
563934.00    4151487.00        0.00000
         563984.00    4151487.00        0.00000
564034.00    4151487.00        0.00000
         564084.00    4151487.00        0.00000
564134.00    4151487.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564184.00	4151487.00	0.00000	564234.00	4151487.00	0.00000
564284.00	4151487.00	0.00000	564334.00	4151487.00	0.00000
564384.00	4151487.00	0.00000	564434.00	4151487.00	0.00000
564484.00	4151487.00	0.00000	564534.00	4151487.00	0.00000
564584.00	4151487.00	0.00000	564634.00	4151487.00	0.00000
564684.00	4151487.00	0.00000	563684.00	4151537.00	0.00000
563734.00	4151537.00	0.00000	563784.00	4151537.00	0.00000
563834.00	4151537.00	0.00000	563884.00	4151537.00	0.00000
563934.00	4151537.00	0.00000	563984.00	4151537.00	0.00000
564034.00	4151537.00	0.00000	564084.00	4151537.00	0.00000
564134.00	4151537.00	0.00000			

564184.00 4151537.00 0.00000
564234.00 4151537.00 0.00000
564284.00 4151537.00 0.00000
564334.00 4151537.00 0.00000
564384.00 4151537.00 0.00000
564434.00 4151537.00 0.00000
564484.00 4151537.00 0.00000
564534.00 4151537.00 0.00000
564584.00 4151537.00 0.00000
564634.00 4151537.00 0.00000
564684.00 4151537.00 0.00000
563684.00 4151587.00 0.00000
563734.00 4151587.00 0.00000
563784.00 4151587.00 0.00000
563834.00 4151587.00 0.00000
563884.00 4151587.00 0.00000
563934.00 4151587.00 0.00000
563984.00 4151587.00 0.00000
564034.00 4151587.00 0.00000
564084.00 4151587.00 0.00000
564134.00 4151587.00 0.00000
564184.00 4151587.00 0.00000
564234.00 4151587.00 0.00000
564284.00 4151587.00 0.00000
564334.00 4151587.00 0.00000
564384.00 4151587.00 0.00000
564434.00 4151587.00 0.00000
564484.00 4151587.00 0.00000
564534.00 4151587.00 0.00000
564584.00 4151587.00 0.00000
564634.00 4151587.00 0.00000
564684.00 4151587.00 0.00000
563684.00 4151637.00 0.00000
563734.00 4151637.00 0.00000
563784.00 4151637.00 0.00000
563834.00 4151637.00 0.00000
563884.00 4151637.00 0.00000
563934.00 4151637.00 0.00000
563984.00 4151637.00 0.00000
564034.00 4151637.00 0.00000
564084.00 4151637.00 0.00000
564134.00 4151637.00 0.00000
564184.00 4151637.00 0.00000
564234.00 4151637.00 0.00000
564284.00 4151637.00 0.00000
564334.00 4151637.00 0.00000
564384.00 4151637.00 0.00000
564434.00 4151637.00 0.00000
564484.00 4151637.00 0.00000
564534.00 4151637.00 0.00000
564584.00 4151637.00 0.00000
564634.00 4151637.00 0.00000

```
564684.00    4151637.00        0.00000
         563684.00    4151687.00        0.00000
563734.00    4151687.00        0.00000
         563784.00    4151687.00        0.00000
563834.00    4151687.00        0.00000
         563884.00    4151687.00        0.00000
563934.00    4151687.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
563984.00	4151687.00	0.00000	564034.00	4151687.00	0.00000
564084.00	4151687.00	0.00000	564134.00	4151687.00	0.00000
564184.00	4151687.00	0.00000	564234.00	4151687.00	0.00000
564284.00	4151687.00	0.00000	564334.00	4151687.00	0.00000
564384.00	4151687.00	0.00000	564434.00	4151687.00	0.00000
564484.00	4151687.00	0.00000	564534.00	4151687.00	0.00000
564584.00	4151687.00	0.00000	564634.00	4151687.00	0.00000
564684.00	4151687.00	0.00000	564024.00	4150977.00	0.00000
564034.00	4150977.00	0.00000	564044.00	4150977.00	0.00000
564054.00	4150977.00	0.00000	564064.00	4150977.00	0.00000
564074.00	4150977.00	0.00000			

564084.00 4150977.00 0.00000
564094.00 4150977.00 0.00000
564104.00 4150977.00 0.00000
564114.00 4150977.00 0.00000
564124.00 4150977.00 0.00000
564134.00 4150977.00 0.00000
564144.00 4150977.00 0.00000
564024.00 4150987.00 0.00000
564034.00 4150987.00 0.00000
564044.00 4150987.00 0.00000
564054.00 4150987.00 0.00000
564064.00 4150987.00 0.00000
564074.00 4150987.00 0.00000
564084.00 4150987.00 0.00000
564094.00 4150987.00 0.00000
564104.00 4150987.00 0.00000
564114.00 4150987.00 0.00000
564124.00 4150987.00 0.00000
564134.00 4150987.00 0.00000
564144.00 4150987.00 0.00000
564024.00 4150997.00 0.00000
564034.00 4150997.00 0.00000
564044.00 4150997.00 0.00000
564054.00 4150997.00 0.00000
564064.00 4150997.00 0.00000
564074.00 4150997.00 0.00000
564084.00 4150997.00 0.00000
564094.00 4150997.00 0.00000
564104.00 4150997.00 0.00000
564114.00 4150997.00 0.00000
564124.00 4150997.00 0.00000
564134.00 4150997.00 0.00000
564144.00 4150997.00 0.00000
564024.00 4151007.00 0.00000
564034.00 4151007.00 0.00000
564044.00 4151007.00 0.00000
564054.00 4151007.00 0.00000
564064.00 4151007.00 0.00000
564074.00 4151007.00 0.00000
564084.00 4151007.00 0.00000
564094.00 4151007.00 0.00000
564104.00 4151007.00 0.00000
564114.00 4151007.00 0.00000
564124.00 4151007.00 0.00000
564134.00 4151007.00 0.00000
564144.00 4151007.00 0.00000
564024.00 4151017.00 0.00000
564034.00 4151017.00 0.00000
564044.00 4151017.00 0.00000
564054.00 4151017.00 0.00000
564064.00 4151017.00 0.00000
564074.00 4151017.00 0.00000

```
564084.00    4151017.00        0.00000
         564094.00    4151017.00        0.00000
564104.00    4151017.00        0.00000
         564114.00    4151017.00        0.00000
564124.00    4151017.00        0.00000
         564134.00    4151017.00        0.00000
564144.00    4151017.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564024.00	4151027.00	0.00000	564034.00	4151027.00	0.00000
564044.00	4151027.00	0.00000	564054.00	4151027.00	0.00000
564064.00	4151027.00	0.00000	564074.00	4151027.00	0.00000
564084.00	4151027.00	0.00000	564094.00	4151027.00	0.00000
564104.00	4151027.00	0.00000	564114.00	4151027.00	0.00000
564124.00	4151027.00	0.00000	564134.00	4151027.00	0.00000
564144.00	4151027.00	0.00000	564024.00	4151037.00	0.00000
564034.00	4151037.00	0.00000	564044.00	4151037.00	0.00000
564054.00	4151037.00	0.00000	564064.00	4151037.00	0.00000
564074.00	4151037.00	0.00000	564084.00	4151037.00	0.00000
564094.00	4151037.00	0.00000			

```
564104.00    4151037.00        0.00000
         564114.00    4151037.00        0.00000
564124.00    4151037.00        0.00000
         564134.00    4151037.00        0.00000
564144.00    4151037.00        0.00000
         564024.00    4151047.00        0.00000
564034.00    4151047.00        0.00000
         564044.00    4151047.00        0.00000
564054.00    4151047.00        0.00000
         564064.00    4151047.00        0.00000
564074.00    4151047.00        0.00000
         564084.00    4151047.00        0.00000
564094.00    4151047.00        0.00000
         564104.00    4151047.00        0.00000
564114.00    4151047.00        0.00000
         564124.00    4151047.00        0.00000
564134.00    4151047.00        0.00000
         564144.00    4151047.00        0.00000
564024.00    4151057.00        0.00000
         564034.00    4151057.00        0.00000
564044.00    4151057.00        0.00000
         564054.00    4151057.00        0.00000
564064.00    4151057.00        0.00000
         564074.00    4151057.00        0.00000
564084.00    4151057.00        0.00000
         564094.00    4151057.00        0.00000
564104.00    4151057.00        0.00000
         564114.00    4151057.00        0.00000
564124.00    4151057.00        0.00000
         564134.00    4151057.00        0.00000
564144.00    4151057.00        0.00000
         564024.00    4151067.00        0.00000
564034.00    4151067.00        0.00000
         564044.00    4151067.00        0.00000
564054.00    4151067.00        0.00000
         564064.00    4151067.00        0.00000
564074.00    4151067.00        0.00000
         564084.00    4151067.00        0.00000
564094.00    4151067.00        0.00000
         564104.00    4151067.00        0.00000
564114.00    4151067.00        0.00000
         564124.00    4151067.00        0.00000
564134.00    4151067.00        0.00000
         564144.00    4151067.00        0.00000
564107.97    4151217.98        0.00000
         564126.88    4151212.46        0.00000
564146.59    4151252.73        0.00000
         564179.25    4151251.60        0.00000
564210.51    4151177.54        0.00000
         564208.82    4151145.16        0.00000
564183.19    4151110.24        0.00000
         564162.92    4151096.45        0.00000
```

```
564148.56    4151092.79        0.00000
         564126.03    4151098.98        0.00000
564088.27    4151128.81        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
Y1_ALL	1ST HIGHEST VALUE IS	0.37531 AT (564183.19, 4151110.24, 1.00, 1.00, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.34401 AT (564162.92, 4151096.45, 1.00, 1.00, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.33699 AT (564208.82, 4151145.16, 1.00, 1.00, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.32120 AT (564148.56, 4151092.79, 1.00, 1.00, 1.50)	DC	
	5TH HIGHEST VALUE IS	0.30288 AT (564126.03, 4151098.98, 1.00, 1.00, 1.50)	DC	
	6TH HIGHEST VALUE IS	0.29239 AT (564191.23, 4151093.66, 1.00, 1.00, 1.50)	DC	
	7TH HIGHEST VALUE IS	0.28581 AT (564158.55, 4151084.80, 1.00, 1.00, 1.50)	DC	
	8TH HIGHEST VALUE IS	0.27675 AT (564184.00, 4151087.00, 1.00, 1.00, 1.50)	DC	
	9TH HIGHEST VALUE IS	0.27127 AT (564210.51, 4151177.54, 1.00, 1.00, 1.50)	DC	
	10TH HIGHEST VALUE IS	0.26377 AT (564134.00, 4151087.00, 1.00, 1.00, 1.50)	DC	
Y1_ON	1ST HIGHEST VALUE IS	0.37530 AT (564183.19, 4151110.24, 1.00, 1.00, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.34400 AT (564162.92, 4151096.45, 1.00, 1.00, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.33699 AT (564208.82, 4151145.16, 1.00, 1.00, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.32117 AT (564148.56,		

```
4151092.79,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.30285 AT (  564126.03,
4151098.98,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.29238 AT (  564191.23,
4151093.66,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.28578 AT (  564158.55,
4151084.80,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.27674 AT (  564184.00,
4151087.00,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.27127 AT (  564210.51,
4151177.54,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.26374 AT (  564134.00,
4151087.00,     1.00,     1.00,    1.50)  DC

Y1_OFF    1ST HIGHEST VALUE IS       0.00006 AT (  564334.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          2ND HIGHEST VALUE IS       0.00006 AT (  564384.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          3RD HIGHEST VALUE IS       0.00005 AT (  564234.00,
4150987.00,     1.00,     1.00,    1.50)  DC
          4TH HIGHEST VALUE IS       0.00005 AT (  564434.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.00005 AT (  564220.50,
4150997.85,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.00005 AT (  564207.53,
4151007.19,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.00005 AT (  564231.22,
4150986.27,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.00005 AT (  564184.00,
4151037.00,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.00005 AT (  564144.00,
4151067.00,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.00005 AT (  564144.00,
4151057.00,     1.00,     1.00,    1.50)  DC

Y2_ALL    1ST HIGHEST VALUE IS       0.18580 AT (  564183.19,
4151110.24,     1.00,     1.00,    1.50)  DC
          2ND HIGHEST VALUE IS       0.17226 AT (  564208.82,
4151145.16,     1.00,     1.00,    1.50)  DC
          3RD HIGHEST VALUE IS       0.16212 AT (  564162.92,
4151096.45,     1.00,     1.00,    1.50)  DC
          4TH HIGHEST VALUE IS       0.14856 AT (  564191.23,
4151093.66,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.14682 AT (  564148.56,
4151092.79,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.13847 AT (  564210.51,
4151177.54,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.13833 AT (  564184.00,
4151087.00,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.13236 AT (  564158.55,
4151084.80,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.12262 AT (  564126.88,
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4151212.46,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.12146 AT (  564126.03,
4151098.98,     1.00,     1.00,    1.50)  DC
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
Y2_ON-B	1ST HIGHEST VALUE IS	0.18404 AT (564183.19, 4151110.24, 1.00, 1.00, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.17056 AT (564208.82, 4151145.16, 1.00, 1.00, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.16025 AT (564162.92, 4151096.45, 1.00, 1.00, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.14705 AT (564191.23, 4151093.66, 1.00, 1.00, 1.50)	DC	
	5TH HIGHEST VALUE IS	0.14484 AT (564148.56, 4151092.79, 1.00, 1.00, 1.50)	DC	
	6TH HIGHEST VALUE IS	0.13680 AT (564184.00, 4151087.00, 1.00, 1.00, 1.50)	DC	
	7TH HIGHEST VALUE IS	0.13660 AT (564210.51, 4151177.54, 1.00, 1.00, 1.50)	DC	
	8TH HIGHEST VALUE IS	0.13060 AT (564158.55, 4151084.80, 1.00, 1.00, 1.50)	DC	
	9TH HIGHEST VALUE IS	0.11911 AT (564126.03, 4151098.98, 1.00, 1.00, 1.50)	DC	
	10TH HIGHEST VALUE IS	0.11541 AT (564126.88, 4151212.46, 1.00, 1.00, 1.50)	DC	
Y2_ON-R	1ST HIGHEST VALUE IS	0.01878 AT (563984.00, 4151287.00, 1.00, 1.00, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.01780 AT (563884.00, 4151387.00, 1.00, 1.00, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.01767 AT (563934.00, 4151337.00, 1.00, 1.00, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.01676 AT (564034.00,		

```
4151237.00,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.01380 AT (  563834.00,
4151337.00,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.01359 AT (  563934.00,
4151387.00,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.01321 AT (  563784.00,
4151337.00,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.01155 AT (  564084.00,
4151187.00,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.01143 AT (  563834.00,
4151387.00,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.01125 AT (  563812.99,
4151377.74,     1.00,     1.00,    1.50)  DC

Y2_ON-A   1ST HIGHEST VALUE IS       0.18580 AT (  564183.19,
4151110.24,     1.00,     1.00,    1.50)  DC
          2ND HIGHEST VALUE IS       0.17226 AT (  564208.82,
4151145.16,     1.00,     1.00,    1.50)  DC
          3RD HIGHEST VALUE IS       0.16212 AT (  564162.92,
4151096.45,     1.00,     1.00,    1.50)  DC
          4TH HIGHEST VALUE IS       0.14856 AT (  564191.23,
4151093.66,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.14682 AT (  564148.56,
4151092.79,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.13847 AT (  564210.51,
4151177.54,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.13833 AT (  564184.00,
4151087.00,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.13236 AT (  564158.55,
4151084.80,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.12262 AT (  564126.88,
4151212.46,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.12146 AT (  564126.03,
4151098.98,     1.00,     1.00,    1.50)  DC

Y2_OFF    1ST HIGHEST VALUE IS       0.00000 AT (  564334.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          2ND HIGHEST VALUE IS       0.00000 AT (  564384.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          3RD HIGHEST VALUE IS       0.00000 AT (  564234.00,
4150987.00,     1.00,     1.00,    1.50)  DC
          4TH HIGHEST VALUE IS       0.00000 AT (  564434.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.00000 AT (  564220.50,
4150997.85,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.00000 AT (  564207.53,
4151007.19,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.00000 AT (  564231.22,
4150986.27,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.00000 AT (  564184.00,
4151037.00,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.00000 AT (  564144.00,
```

```
4151067.00,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.00000 AT (  564144.00,
4151057.00,     1.00,     1.00,    1.50)  DC


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

```
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\308-
Phelps_Construction-HRA_20221102\308-Phelps_Constructio ***
11/03/22
 *** AERMET - VERSION  18081 ***   ***
***        10:07:26

PAGE 143
 *** MODELOPTs:    NonDFAULT  CONC  FLAT  FLGPOL  URBAN  SigA
Data

 *** 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         2057 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          106 Calm Hours Identified

 A Total of         1951 Missing Hours Identified (  4.45
Percent)


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


    ********   WARNING MESSAGES   ********
 MX W403    1702       PFLCNV: Turbulence data is being used w/o
ADJ_U* option       SigA Data
 MX W403       1       PFLCNV: Turbulence data is being used w/o
ADJ_U* option       SigA Data

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

```
** Lakes Environmental AERMOD MPI
**
****************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 11/3/2022
** File: C:\Lakes\308-Phelps_Construction-HRA-MIT_FLAT_20221103
\308-Phelps_Construction-HRA-MIT_FLAT_20221103.ADI
**
****************************************
**
**
****************************************
** AERMOD Control Pathway
****************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\308-Phelps_Construction-HRA_20221102\308-
Phelps_Constructio
   MODELOPT CONC FLAT
   AVERTIME PERIOD
   URBANOPT 4709220 San_Francisco-Oakland-Berkeley,_CA_Metro
   POLLUTID PM_2.5
   FLAGPOLE 1.50
   RUNORNOT RUN
   ERRORFIL 308-Phelps_Construction-HRA-MIT_FLAT_20221103.err
CO FINISHED
**
****************************************
** AERMOD Source Pathway
****************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA01      AREAPOLY   564088.794  4151129.307
0.0
** DESCRSRC Y1_ON_ENTIRE-SITE
   LOCATION PAREA02      AREAPOLY   564114.185  4151199.280
0.0
** DESCRSRC Y1_ON_BUILDINGS
** ------------------------------------------------------------------
-------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN01
** DESCRSRC Y2_ON_W-PAVING
** PREFIX
** Length of Side = 12.19
```

```
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 1.0047E-08
** Nodes = 17
** 564104.996, 4151204.370, 89.88, 5.00
** 564045.770, 4151235.141, 89.20, 5.00
** 564025.918, 4151254.331, 88.59, 5.00
** 564003.419, 4151293.373, 89.18, 5.00
** 563976.684, 4151309.232, 87.37, 5.00
** 563956.443, 4151325.192, 88.62, 5.00
** 563929.194, 4151375.407, 95.46, 5.00
** 563907.785, 4151423.676, 95.87, 5.00
** 563893.771, 4151429.904, 96.94, 5.00
** 563877.033, 4151426.790, 95.79, 5.00
** 563860.684, 4151413.166, 95.27, 5.00
** 563851.826, 4151401.905, 96.98, 5.00
** 563835.339, 4151373.968, 101.99, 5.00
** 563828.927, 4151365.267, 101.69, 5.00
** 563818.852, 4151359.771, 101.07, 5.00
** 563774.113, 4151351.892, 102.74, 5.00
** 563757.066, 4151341.618, 102.37, 5.00
** ------------------------------------------------------------
-------
   LOCATION A0000001     AREA     564107.806 4151209.779 0.0
   LOCATION A0000002     AREA     564050.007 4151239.523 0.0
   LOCATION A0000003     AREA     564031.200 4151257.375 0.0
   LOCATION A0000004     AREA     564006.529 4151298.616 0.0
   LOCATION A0000005     AREA     563980.459 4151314.019 0.0
   LOCATION A0000006     AREA     563961.800 4151328.100 0.0
   LOCATION A0000007     AREA     563934.767 4151377.879 0.0
   LOCATION A0000008     AREA     563910.260 4151429.246 0.0
   LOCATION A0000009     AREA     563892.656 4151435.897 0.0
   LOCATION A0000010     AREA     563873.130 4151431.473 0.0
   LOCATION A0000011     AREA     563855.892 4151416.935 0.0
   LOCATION A0000012     AREA     563846.576 4151405.003 0.0
   LOCATION A0000013     AREA     563830.431 4151377.584 0.0
   LOCATION A0000014     AREA     563826.008 4151370.618 0.0
   LOCATION A0000015     AREA     563817.794 4151365.775 0.0
   LOCATION A0000016     AREA     563770.966 4151357.113 0.0
** End of LINE AREA Source ID = ARLN01
   LOCATION PAREA03      AREAPOLY   564114.180  4151199.280
0.0
** DESCRSRC Y2_ON_BUILDINGS
** ------------------------------------------------------------
-------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN02
** DESCRSRC Y1_OFF
** PREFIX
** Length of Side = 6.10
** Ratio = 10
** Vertical Dimension = 0.00
```

```
** Emission Rate = 3.8589E-10
** Nodes = 19
** 564117.482, 4151106.946, 53.12, 4.15
** 564114.891, 4151102.627, 52.63, 4.15
** 564128.629, 4151090.845, 51.62, 4.15
** 564147.353, 4151074.492, 50.92, 4.15
** 564172.455, 4151047.984, 47.60, 4.15
** 564193.020, 4151035.071, 45.74, 4.15
** 564215.753, 4151023.238, 44.87, 4.15
** 564235.447, 4151005.795, 43.97, 4.15
** 564256.091, 4150981.492, 42.22, 4.15
** 564276.897, 4150958.055, 38.16, 4.15
** 564282.398, 4150948.729, 37.58, 4.15
** 564290.447, 4150931.488, 37.05, 4.15
** 564295.122, 4150911.769, 35.92, 4.15
** 564295.618, 4150909.149, 35.52, 4.15
** 564299.481, 4150887.803, 34.83, 4.15
** 564303.343, 4150857.919, 32.91, 4.15
** 564304.766, 4150848.161, 32.26, 4.15
** 564436.703, 4150850.600, 28.22, 4.15
** 564480.124, 4150857.647, 27.67, 4.15
** ------------------------------------------------------------------
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   LOCATION A0000017     AREA     564114.868 4151108.515 0.0
   LOCATION A0000018     AREA     564112.906 4151100.314 0.0
   LOCATION A0000019     AREA     564126.624 4151088.549 0.0
   LOCATION A0000020     AREA     564145.139 4151072.397 0.0
   LOCATION A0000021     AREA     564170.834 4151045.403 0.0
   LOCATION A0000022     AREA     564191.613 4151032.367 0.0
   LOCATION A0000023     AREA     564213.732 4151020.957 0.0
   LOCATION A0000024     AREA     564233.124 4151003.822 0.0
   LOCATION A0000025     AREA     564253.812 4150979.468 0.0
   LOCATION A0000026     AREA     564274.272 4150956.507 0.0
   LOCATION A0000027     AREA     564279.636 4150947.439 0.0
   LOCATION A0000028     AREA     564287.481 4150930.785 0.0
   LOCATION A0000029     AREA     564292.127 4150911.202 0.0
   LOCATION A0000030     AREA     564292.619 4150908.606 0.0
   LOCATION A0000031     AREA     564296.458 4150887.412 0.0
   LOCATION A0000032     AREA     564300.327 4150857.479 0.0
   LOCATION A0000033     AREA     564304.823 4150845.113 0.0
   LOCATION A0000034     AREA     564348.802 4150845.926 0.0
   LOCATION A0000035     AREA     564392.781 4150846.740 0.0
   LOCATION A0000036     AREA     564437.192 4150847.592 0.0
** End of LINE AREA Source ID = ARLN02
** ------------------------------------------------------------------
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN03
** DESCRSRC Y2_OFF
** PREFIX
** Length of Side = 6.10
** Ratio = 10
```

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** Vertical Dimension = 0.00
** Emission Rate = 2.2005E-11
** Nodes = 19
** 564117.480, 4151106.950, 53.12, 4.15
** 564114.890, 4151102.630, 52.63, 4.15
** 564128.630, 4151090.840, 51.62, 4.15
** 564147.350, 4151074.490, 50.92, 4.15
** 564172.450, 4151047.980, 47.60, 4.15
** 564193.020, 4151035.070, 45.74, 4.15
** 564215.750, 4151023.240, 44.87, 4.15
** 564235.450, 4151005.800, 43.97, 4.15
** 564256.090, 4150981.490, 42.22, 4.15
** 564276.900, 4150958.060, 38.16, 4.15
** 564282.400, 4150948.730, 37.58, 4.15
** 564290.450, 4150931.490, 37.05, 4.15
** 564295.120, 4150911.770, 35.92, 4.15
** 564295.620, 4150909.150, 35.52, 4.15
** 564299.480, 4150887.800, 34.83, 4.15
** 564303.340, 4150857.920, 32.91, 4.15
** 564304.770, 4150848.160, 32.26, 4.15
** 564436.700, 4150850.600, 28.22, 4.15
** 564480.120, 4150857.650, 27.67, 4.15
** ------------------------------------------------------------------
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   LOCATION A0000037     AREA     564114.866 4151108.517 0.0
   LOCATION A0000038     AREA     564112.905 4151100.317 0.0
   LOCATION A0000039     AREA     564126.625 4151088.544 0.0
   LOCATION A0000040     AREA     564145.137 4151072.394 0.0
   LOCATION A0000041     AREA     564170.830 4151045.398 0.0
   LOCATION A0000042     AREA     564191.613 4151032.366 0.0
   LOCATION A0000043     AREA     564213.730 4151020.958 0.0
   LOCATION A0000044     AREA     564233.127 4151003.827 0.0
   LOCATION A0000045     AREA     564253.811 4150979.466 0.0
   LOCATION A0000046     AREA     564274.274 4150956.512 0.0
   LOCATION A0000047     AREA     564279.638 4150947.440 0.0
   LOCATION A0000048     AREA     564287.484 4150930.788 0.0
   LOCATION A0000049     AREA     564292.126 4150911.199 0.0
   LOCATION A0000050     AREA     564292.621 4150908.608 0.0
   LOCATION A0000051     AREA     564296.457 4150887.409 0.0
   LOCATION A0000052     AREA     564300.324 4150857.478 0.0
   LOCATION A0000053     AREA     564304.826 4150845.113 0.0
   LOCATION A0000054     AREA     564348.803 4150845.926 0.0
   LOCATION A0000055     AREA     564392.780 4150846.739 0.0
   LOCATION A0000056     AREA     564437.188 4150847.591 0.0
** End of LINE AREA Source ID = ARLN03
** Source Parameters **
   SRCPARAM PAREA01      3.6816E-08     5.000        13
   AREAVERT PAREA01      564088.794 4151129.307 564127.040
4151099.217
   AREAVERT PAREA01      564148.413 4151093.311 564161.349
4151095.842
   AREAVERT PAREA01      564180.191 4151108.216 564186.622
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4151115.315
   AREAVERT PAREA01      564191.159 4151121.433 564208.032
4151145.337
   AREAVERT PAREA01      564210.001 4151177.677 564178.785
4151251.076
   AREAVERT PAREA01      564146.726 4151251.920 564127.322
4151212.549
   AREAVERT PAREA01      564108.199 4151216.767
   SRCPARAM PAREA02      2.6583E-08     5.000        17
   AREAVERT PAREA02      564114.185 4151199.280 564135.471
4151210.878
   AREAVERT PAREA02      564140.169 4151235.834 564155.143
4151235.394
   AREAVERT PAREA02      564190.816 4151202.069 564200.799
4151166.837
   AREAVERT PAREA02      564198.890 4151132.485 564183.151
4151111.354
   AREAVERT PAREA02      564171.407 4151102.399 564162.745
4151097.114
   AREAVERT PAREA02      564125.163 4151111.354 564132.797
4151128.677
   AREAVERT PAREA02      564172.434 4151126.622 564183.591
4151145.119
   AREAVERT PAREA02      564163.185 4151152.753 564131.035
4151147.321
   AREAVERT PAREA02      564098.444 4151156.864
** LINE AREA Source ID = ARLN01
   SRCPARAM A0000001     1.0047E-08     5.000    66.742
12.192  -152.546
   SRCPARAM A0000002     1.0047E-08     5.000    27.611
12.192  -135.971
   SRCPARAM A0000003     1.0047E-08     5.000    45.061
12.192  -119.954
   SRCPARAM A0000004     1.0047E-08     5.000    31.085
12.192  -149.324
   SRCPARAM A0000005     1.0047E-08     5.000    25.777
12.192  -141.746
   SRCPARAM A0000006     1.0047E-08     5.000    57.132
12.192  -118.486
   SRCPARAM A0000007     1.0047E-08     5.000    52.804
12.192  -113.920
   SRCPARAM A0000008     1.0047E-08     5.000    15.335
12.192  -156.038
   SRCPARAM A0000009     1.0047E-08     5.000    17.026    12.192
169.461
   SRCPARAM A0000010     1.0047E-08     5.000    21.282    12.192
140.194
   SRCPARAM A0000011     1.0047E-08     5.000    14.327    12.192
128.189
   SRCPARAM A0000012     1.0047E-08     5.000    32.439    12.192
120.548
   SRCPARAM A0000013     1.0047E-08     5.000    10.809    12.192
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126.384
   SRCPARAM A0000014     1.0047E-08     5.000    11.477    12.192
151.390
   SRCPARAM A0000015     1.0047E-08     5.000    45.427    12.192
170.012
   SRCPARAM A0000016     1.0047E-08     5.000    19.903    12.192
148.922
** ------------------------------------------------------------
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   SRCPARAM PAREA03      5.4721E-08     5.000        17
   AREAVERT PAREA03      564114.180 4151199.280 564135.470
4151210.880
   AREAVERT PAREA03      564140.170 4151235.830 564155.140
4151235.390
   AREAVERT PAREA03      564190.820 4151202.070 564200.800
4151166.840
   AREAVERT PAREA03      564198.890 4151132.480 564183.150
4151111.350
   AREAVERT PAREA03      564171.410 4151102.400 564162.750
4151097.110
   AREAVERT PAREA03      564125.160 4151111.350 564132.800
4151128.680
   AREAVERT PAREA03      564172.430 4151126.620 564183.590
4151145.120
   AREAVERT PAREA03      564163.190 4151152.750 564131.040
4151147.320
   AREAVERT PAREA03      564098.440 4151156.860
** LINE AREA Source ID = ARLN02
   SRCPARAM A0000017     3.8589E-10     4.150     5.037     6.096
120.964
   SRCPARAM A0000018     3.8589E-10     4.150    18.099     6.096
40.619
   SRCPARAM A0000019     3.8589E-10     4.150    24.859     6.096
41.132
   SRCPARAM A0000020     3.8589E-10     4.150    36.508     6.096
46.560
   SRCPARAM A0000021     3.8589E-10     4.150    24.283     6.096
32.125
   SRCPARAM A0000022     3.8589E-10     4.150    25.628     6.096
27.498
   SRCPARAM A0000023     3.8589E-10     4.150    26.308     6.096
41.532
   SRCPARAM A0000024     3.8589E-10     4.150    31.888     6.096
49.654
   SRCPARAM A0000025     3.8589E-10     4.150    31.339     6.096
48.403
   SRCPARAM A0000026     3.8589E-10     4.150    10.828     6.096
59.470
   SRCPARAM A0000027     3.8589E-10     4.150    19.027     6.096
64.974
   SRCPARAM A0000028     3.8589E-10     4.150    20.266     6.096
76.661
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   SRCPARAM A0000029     3.8589E-10     4.150     2.667     6.096
79.284
   SRCPARAM A0000030     3.8589E-10     4.150    21.692     6.096
79.743
   SRCPARAM A0000031     3.8589E-10     4.150    30.133     6.096
82.635
   SRCPARAM A0000032     3.8589E-10     4.150     9.861     6.096
81.703
   SRCPARAM A0000033     3.8589E-10     4.150    43.987
6.096    -1.059
   SRCPARAM A0000034     3.8589E-10     4.150    43.987
6.096    -1.059
   SRCPARAM A0000035     3.8589E-10     4.150    43.987
6.096    -1.059
   SRCPARAM A0000036     3.8589E-10     4.150    43.989
6.096    -9.218
** ------------------------------------------------------------
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** LINE AREA Source ID = ARLN03
   SRCPARAM A0000037     2.2005E-11     4.150     5.037     6.096
120.944
   SRCPARAM A0000038     2.2005E-11     4.150    18.105     6.096
40.632
   SRCPARAM A0000039     2.2005E-11     4.150    24.855     6.096
41.134
   SRCPARAM A0000040     2.2005E-11     4.150    36.507     6.096
46.565
   SRCPARAM A0000041     2.2005E-11     4.150    24.286     6.096
32.113
   SRCPARAM A0000042     2.2005E-11     4.150    25.624     6.096
27.495
   SRCPARAM A0000043     2.2005E-11     4.150    26.311     6.096
41.518
   SRCPARAM A0000044     2.2005E-11     4.150    31.890     6.096
49.668
   SRCPARAM A0000045     2.2005E-11     4.150    31.337     6.096
48.389
   SRCPARAM A0000046     2.2005E-11     4.150    10.830     6.096
59.481
   SRCPARAM A0000047     2.2005E-11     4.150    19.027     6.096
64.970
   SRCPARAM A0000048     2.2005E-11     4.150    20.265     6.096
76.677
   SRCPARAM A0000049     2.2005E-11     4.150     2.667     6.096
79.196
   SRCPARAM A0000050     2.2005E-11     4.150    21.696     6.096
79.752
   SRCPARAM A0000051     2.2005E-11     4.150    30.128     6.096
82.639
   SRCPARAM A0000052     2.2005E-11     4.150     9.864     6.096
81.665
   SRCPARAM A0000053     2.2005E-11     4.150    43.984
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6.096    -1.060
   SRCPARAM A0000054     2.2005E-11     4.150    43.984
6.096    -1.060
   SRCPARAM A0000055     2.2005E-11     4.150    43.984
6.096    -1.060
   SRCPARAM A0000056     2.2005E-11     4.150    43.989
6.096    -9.222
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   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 2"
** WeekDays:
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA01      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA01      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA01      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA01      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA02      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA02      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA02      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA02      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000003     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000004     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000005     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000006     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000007     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000008     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000009     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000010     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000011     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000012     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000013     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000014     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000015     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000001     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000002     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000003     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000004     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000005     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000006     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000007     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000007     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000008     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000008     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
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   EMISFACT A0000009     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000009     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000010     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000010     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000011     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000011     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000012     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000012     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000013     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000013     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000014     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000014     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000015     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000015     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000016     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000016     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA03      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA03      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT PAREA03      HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT PAREA03      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000017     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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EMISFACT A0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000029     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000030     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000030     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000031     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
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   EMISFACT A0000031     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000032     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000033     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000034     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000035     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000036     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000019     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000020     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000021     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000022     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000023     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000024     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000025     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000026     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000027     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000028     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000029     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000029     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000030     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000031     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000032     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000033     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000034     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000035     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000036     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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```
EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000017     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000017     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000017     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000018     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000018     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000018     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000019     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000019     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000020     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000020     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000021     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000021     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000022     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000022     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000023     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000023     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000024     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000024     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000025     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000025     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000026     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000026     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000027     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000027     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000028     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000028     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000029     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000029     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000030     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000030     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000031     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000031     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000032     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000032     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000033     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000033     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000034     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000034     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000035     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000035     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000036     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000036     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000037     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000038     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000039     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000040     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000041     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000042     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000043     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000044     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000045     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000046     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000047     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000048     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000049     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000050     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000050     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000051     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000051     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000052     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000052     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000053     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000054     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000054     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000055     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
EMISFACT A0000055     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT A0000056     HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000037     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000038     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000039     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000040     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000041     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000042     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000043     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000043     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000044     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000044     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000045     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000045     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000046     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000046     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000047     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000047     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000048     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
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   EMISFACT A0000048     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000049     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000049     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000050     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000050     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000051     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000051     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000052     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000052     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000053     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000053     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000054     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000054     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000055     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000056     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000037     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000037     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000038     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000038     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000039     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000039     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000040     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000040     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000041     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000041     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000041     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000042     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000042     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000042     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000043     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000043     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000044     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000044     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000045     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000046     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000047     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000048     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000049     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000050     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000050     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000051     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000051     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000052     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000052     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
EMISFACT A0000053     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000054     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000054     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
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   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000055     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 1.0 1.0 1.0
   EMISFACT A0000056     HRDOW 1.0 1.0 1.0 1.0 1.0 0.0
   EMISFACT A0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP Y1_ALL   PAREA01 PAREA02 A0000017 A0000018 A0000019
A0000020
   SRCGROUP Y1_ALL   A0000021 A0000022 A0000023 A0000024 A0000025
A0000026
   SRCGROUP Y1_ALL   A0000027 A0000028 A0000029 A0000030 A0000031
A0000032
   SRCGROUP Y1_ALL   A0000033 A0000034 A0000035 A0000036
   SRCGROUP Y1_ON    PAREA01 PAREA02
   SRCGROUP Y1_OFF   A0000017 A0000018 A0000019 A0000020 A0000021
A0000022
   SRCGROUP Y1_OFF   A0000023 A0000024 A0000025 A0000026 A0000027
A0000028
   SRCGROUP Y1_OFF   A0000029 A0000030 A0000031 A0000032 A0000033
A0000034
   SRCGROUP Y1_OFF   A0000035 A0000036
   SRCGROUP Y2_ALL   A0000001 A0000002 A0000003 A0000004 A0000005
A0000006
   SRCGROUP Y2_ALL   A0000007 A0000008 A0000009 A0000010 A0000011
A0000012
   SRCGROUP Y2_ALL   A0000013 A0000014 A0000015 A0000016 PAREA03
A0000037
   SRCGROUP Y2_ALL   A0000038 A0000039 A0000040 A0000041 A0000042
A0000043
   SRCGROUP Y2_ALL   A0000044 A0000045 A0000046 A0000047 A0000048
A0000049
   SRCGROUP Y2_ALL   A0000050 A0000051 A0000052 A0000053 A0000054
A0000055
   SRCGROUP Y2_ALL   A0000056
   SRCGROUP Y2_ON-B  PAREA03
   SRCGROUP Y2_ON-R  A0000001 A0000002 A0000003 A0000004 A0000005
A0000006
   SRCGROUP Y2_ON-R  A0000007 A0000008 A0000009 A0000010 A0000011
A0000012
   SRCGROUP Y2_ON-R  A0000013 A0000014 A0000015 A0000016
   SRCGROUP Y2_ON-A  A0000001 A0000002 A0000003 A0000004 A0000005
A0000006
   SRCGROUP Y2_ON-A  A0000007 A0000008 A0000009 A0000010 A0000011
A0000012
   SRCGROUP Y2_ON-A  A0000013 A0000014 A0000015 A0000016 PAREA03
   SRCGROUP Y2_OFF   A0000037 A0000038 A0000039 A0000040 A0000041
A0000042
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   SRCGROUP Y2_OFF   A0000043 A0000044 A0000045 A0000046 A0000047
A0000048
   SRCGROUP Y2_OFF   A0000049 A0000050 A0000051 A0000052 A0000053
A0000054
   SRCGROUP Y2_OFF   A0000055 A0000056
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
** DESCRREC "" ""
   DISCCART    564114.01   4151261.20    1.50
   DISCCART    564135.61   4151266.04    1.50
   DISCCART    564119.54   4151293.69    1.50
   DISCCART    564130.77   4151312.01    1.50
   DISCCART    564163.09   4151305.62    1.50
   DISCCART    564177.44   4151299.74    1.50
   DISCCART    564196.97   4151291.79    1.50
   DISCCART    564210.10   4151280.21    1.50
   DISCCART    564220.30   4151264.14    1.50
   DISCCART    564227.90   4151247.38    1.50
   DISCCART    564238.45   4151230.27    1.50
   DISCCART    564240.80   4151212.56    1.50
   DISCCART    564248.22   4151198.20    1.50
   DISCCART    564256.35   4151175.24    1.50
   DISCCART    564269.75   4151162.08    1.50
   DISCCART    564286.49   4151151.08    1.50
   DISCCART    564308.10   4151135.11    1.50
   DISCCART    564329.77   4151126.39    1.50
   DISCCART    564243.38   4151128.82    1.50
   DISCCART    564191.23   4151093.66    1.50
   DISCCART    564176.16   4151074.52    1.50
   DISCCART    564232.45   4151110.30    1.50
   DISCCART    564235.20   4151074.64    1.50
   DISCCART    564247.20   4151064.67    1.50
   DISCCART    564261.03   4151054.91    1.50
   DISCCART    564279.33   4151048.00    1.50
   DISCCART    564092.05   4151261.51    1.50
   DISCCART    564077.80   4151271.65    1.50
   DISCCART    564075.89   4151298.68    1.50
   DISCCART    564092.20   4151320.13    1.50
   DISCCART    564079.00   4151329.27    1.50
   DISCCART    564064.02   4151340.14    1.50
   DISCCART    564053.40   4151343.64    1.50
   DISCCART    564038.54   4151353.00    1.50
   DISCCART    564026.30   4151362.62    1.50
   DISCCART    564014.58   4151371.30    1.50
   DISCCART    564004.15   4151384.96    1.50
   DISCCART    563986.52   4151397.01    1.50
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   DISCCART    563975.05   4151409.36    1.50
   DISCCART    563812.99   4151377.74    1.50
   DISCCART    563786.51   4151378.74    1.50
   DISCCART    563747.29   4151364.63    1.50
   DISCCART    563732.55   4151348.64    1.50
   DISCCART    564252.63   4151299.36    1.50
   DISCCART    564270.08   4151278.80    1.50
   DISCCART    564280.78   4151263.04    1.50
   DISCCART    564299.64   4151254.31    1.50
   DISCCART    564320.76   4151241.36    1.50
   DISCCART    564338.49   4151199.69    1.50
   DISCCART    564223.05   4151086.47    1.50
   DISCCART    564223.05   4151100.23    1.50
   DISCCART    564207.53   4151007.19    1.50
   DISCCART    564220.50   4150997.85    1.50
   DISCCART    564231.22   4150986.27    1.50
   DISCCART    564270.64   4151004.25    1.50
   DISCCART    564293.29   4151001.31    1.50
   DISCCART    564316.46   4150997.68    1.50
   DISCCART    564190.93   4150987.82    1.50
   DISCCART    564158.55   4151084.80    1.50
** DESCRREC "UCART1" "Receptors generated from Uniform Cartesian
Grid"
   DISCCART    563684.00   4150687.00    1.50
   DISCCART    563734.00   4150687.00    1.50
   DISCCART    563784.00   4150687.00    1.50
   DISCCART    563834.00   4150687.00    1.50
   DISCCART    563884.00   4150687.00    1.50
   DISCCART    563934.00   4150687.00    1.50
   DISCCART    563984.00   4150687.00    1.50
   DISCCART    564034.00   4150687.00    1.50
   DISCCART    564084.00   4150687.00    1.50
   DISCCART    564134.00   4150687.00    1.50
   DISCCART    564184.00   4150687.00    1.50
   DISCCART    564234.00   4150687.00    1.50
   DISCCART    564284.00   4150687.00    1.50
   DISCCART    564334.00   4150687.00    1.50
   DISCCART    564384.00   4150687.00    1.50
   DISCCART    564434.00   4150687.00    1.50
   DISCCART    564484.00   4150687.00    1.50
   DISCCART    564534.00   4150687.00    1.50
   DISCCART    564584.00   4150687.00    1.50
   DISCCART    564634.00   4150687.00    1.50
   DISCCART    564684.00   4150687.00    1.50
   DISCCART    563684.00   4150737.00    1.50
   DISCCART    563734.00   4150737.00    1.50
   DISCCART    563784.00   4150737.00    1.50
   DISCCART    563834.00   4150737.00    1.50
   DISCCART    563884.00   4150737.00    1.50
   DISCCART    563934.00   4150737.00    1.50
   DISCCART    563984.00   4150737.00    1.50
   DISCCART    564034.00   4150737.00    1.50
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DISCCART	564084.00	4150737.00	1.50
DISCCART	564134.00	4150737.00	1.50
DISCCART	564184.00	4150737.00	1.50
DISCCART	564234.00	4150737.00	1.50
DISCCART	564284.00	4150737.00	1.50
DISCCART	564334.00	4150737.00	1.50
DISCCART	564384.00	4150737.00	1.50
DISCCART	564434.00	4150737.00	1.50
DISCCART	564484.00	4150737.00	1.50
DISCCART	564534.00	4150737.00	1.50
DISCCART	564584.00	4150737.00	1.50
DISCCART	564634.00	4150737.00	1.50
DISCCART	564684.00	4150737.00	1.50
DISCCART	563684.00	4150787.00	1.50
DISCCART	563734.00	4150787.00	1.50
DISCCART	563784.00	4150787.00	1.50
DISCCART	563834.00	4150787.00	1.50
DISCCART	563884.00	4150787.00	1.50
DISCCART	563934.00	4150787.00	1.50
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DISCCART	564034.00	4150787.00	1.50
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DISCCART	563734.00	4150837.00	1.50
DISCCART	563784.00	4150837.00	1.50
DISCCART	563834.00	4150837.00	1.50
DISCCART	563884.00	4150837.00	1.50
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DISCCART	563984.00	4150837.00	1.50
DISCCART	564034.00	4150837.00	1.50
DISCCART	564084.00	4150837.00	1.50
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DISCCART	564184.00	4150837.00	1.50
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DISCCART	564384.00	4150837.00	1.50
DISCCART	564434.00	4150837.00	1.50
DISCCART	564484.00	4150837.00	1.50
DISCCART	564534.00	4150837.00	1.50

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DISCCART    564584.00   4150837.00    1.50
DISCCART    564634.00   4150837.00    1.50
DISCCART    564684.00   4150837.00    1.50
DISCCART    563684.00   4150887.00    1.50
DISCCART    563734.00   4150887.00    1.50
DISCCART    563784.00   4150887.00    1.50
DISCCART    563834.00   4150887.00    1.50
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DISCCART    564184.00   4150887.00    1.50
DISCCART    564234.00   4150887.00    1.50
DISCCART    564284.00   4150887.00    1.50
DISCCART    564334.00   4150887.00    1.50
DISCCART    564384.00   4150887.00    1.50
DISCCART    564434.00   4150887.00    1.50
DISCCART    564484.00   4150887.00    1.50
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DISCCART    564584.00   4150887.00    1.50
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DISCCART    563734.00   4150937.00    1.50
DISCCART    563784.00   4150937.00    1.50
DISCCART    563834.00   4150937.00    1.50
DISCCART    563884.00   4150937.00    1.50
DISCCART    563934.00   4150937.00    1.50
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DISCCART    564034.00   4150937.00    1.50
DISCCART    564084.00   4150937.00    1.50
DISCCART    564134.00   4150937.00    1.50
DISCCART    564184.00   4150937.00    1.50
DISCCART    564234.00   4150937.00    1.50
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DISCCART    564334.00   4150937.00    1.50
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DISCCART    564534.00   4150937.00    1.50
DISCCART    564584.00   4150937.00    1.50
DISCCART    564634.00   4150937.00    1.50
DISCCART    564684.00   4150937.00    1.50
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DISCCART    563734.00   4150987.00    1.50
DISCCART    563784.00   4150987.00    1.50
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DISCCART    563984.00   4150987.00    1.50
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DISCCART    564084.00   4150987.00    1.50
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DISCCART    564234.00   4150987.00    1.50
DISCCART    564284.00   4150987.00    1.50
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DISCCART    564134.00   4151487.00    1.50
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   DISCCART    564584.00   4151687.00    1.50
   DISCCART    564634.00   4151687.00    1.50
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** DESCRREC "UCART2" "Receptors generated from Uniform Cartesian
Grid"
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   DISCCART    564084.00   4150977.00    1.50
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DISCCART    564084.00   4151017.00    1.50
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DISCCART    564084.00   4151057.00    1.50
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```
   DISCCART    564094.00   4151057.00    1.50
   DISCCART    564104.00   4151057.00    1.50
   DISCCART    564114.00   4151057.00    1.50
   DISCCART    564124.00   4151057.00    1.50
   DISCCART    564134.00   4151057.00    1.50
   DISCCART    564144.00   4151057.00    1.50
   DISCCART    564024.00   4151067.00    1.50
   DISCCART    564034.00   4151067.00    1.50
   DISCCART    564044.00   4151067.00    1.50
   DISCCART    564054.00   4151067.00    1.50
   DISCCART    564064.00   4151067.00    1.50
   DISCCART    564074.00   4151067.00    1.50
   DISCCART    564084.00   4151067.00    1.50
   DISCCART    564094.00   4151067.00    1.50
   DISCCART    564104.00   4151067.00    1.50
   DISCCART    564114.00   4151067.00    1.50
   DISCCART    564124.00   4151067.00    1.50
   DISCCART    564134.00   4151067.00    1.50
   DISCCART    564144.00   4151067.00    1.50
** Discrete Cartesian Plant Boundary - Primary Receptors
** Plant Boundary Name PLBN1
** DESCRREC "FENCEPRI" "Cartesian plant boundary Primary
Receptors"
   DISCCART    564107.97   4151217.98    1.50
   DISCCART    564126.88   4151212.46    1.50
   DISCCART    564146.59   4151252.73    1.50
   DISCCART    564179.25   4151251.60    1.50
   DISCCART    564210.51   4151177.54    1.50
   DISCCART    564208.82   4151145.16    1.50
   DISCCART    564183.19   4151110.24    1.50
   DISCCART    564162.92   4151096.45    1.50
   DISCCART    564148.56   4151092.79    1.50
   DISCCART    564126.03   4151098.98    1.50
   DISCCART    564088.27   4151128.81    1.50
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "C:\Users\sjremote\Desktop\308-Phelps\San_Carlos_
2013-2017\SAN_CARLOS_2013-2017 SFC.SFC"
   PROFFILE "C:\Users\sjremote\Desktop\308-Phelps\San_Carlos_
2013-2017\SAN_CARLOS_2013-2017 PFL.PFL"
   SURFDATA 23254 2013 San_Carlos_Airport 566119.00 4152498.00
   UAIRDATA 23230 2013 OAKLAND/WSO_AP
   SITEDATA 6901 2013
   PROFBASE 1.0 METERS
ME FINISHED
**
```

```
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE PERIOD Y1_ALL 308-PHELPS_CONSTRUCTION-HRA-MIT_FLAT_
20221103.AD\PE00G001.PLT 31
   PLOTFILE PERIOD Y1_ON 308-PHELPS_CONSTRUCTION-HRA-MIT_FLAT_
20221103.AD\PE00G002.PLT 32
   PLOTFILE PERIOD Y1_OFF 308-PHELPS_CONSTRUCTION-HRA-MIT_FLAT_
20221103.AD\PE00G003.PLT 33
   PLOTFILE PERIOD Y2_ALL 308-PHELPS_CONSTRUCTION-HRA-MIT_FLAT_
20221103.AD\PE00G004.PLT 34
   PLOTFILE PERIOD Y2_ON-B 308-PHELPS_CONSTRUCTION-HRA-MIT_FLAT_
20221103.AD\PE00G005.PLT 35
   PLOTFILE PERIOD Y2_ON-R 308-PHELPS_CONSTRUCTION-HRA-MIT_FLAT_
20221103.AD\PE00G006.PLT 36
   PLOTFILE PERIOD Y2_ON-A 308-PHELPS_CONSTRUCTION-HRA-MIT_FLAT_
20221103.AD\PE00G007.PLT 37
   PLOTFILE PERIOD Y2_OFF 308-PHELPS_CONSTRUCTION-HRA-MIT_FLAT_
20221103.AD\PE00G008.PLT 38
   SUMMFILE 308-Phelps_Construction-HRA-MIT_FLAT_20221103.sum
OU FINISHED


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

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

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


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


    ********   WARNING MESSAGES   ********
 MX W403    1702       PFLCNV: Turbulence data is being used w/o
ADJ_U* option       SigA Data

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

```
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\308-
Phelps_Construction-HRA_20221102\308-Phelps_Constructio ***
11/03/22
 *** AERMET - VERSION  18081 ***   ***
***        11:42:17

PAGE   1
 *** MODELOPTs:    NonDFAULT  CONC  FLAT  FLGPOL  URBAN  SigA
Data

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

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

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

 **Model Uses URBAN Dispersion Algorithm for the SBL for    59
Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   4709220.0 ;  Urban Roughness Length =
1.000 m

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

 **Other Options Specified:
         TEMP_Sub - Meteorological data includes TEMP
substitutions

 **Model Accepts FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_2.5

 **Model Calculates PERIOD Averages Only

 **This Run Includes:     59 Source(s);       8 Source Group(s);
and     636 Receptor(s)

                with:      0 POINT(s), including
```

```
                              0 POINTCAP(s) and      0 POINTHOR(s)
                  and:        0 VOLUME source(s)
                  and:       59 AREA type source(s)
                  and:        0 LINE source(s)
                  and:        0 RLINE/RLINEXT source(s)
                  and:        0 OPENPIT source(s)
                  and:        0 BUOYANT LINE source(s) with a total
of     0 line(s)


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

 **The AERMET Input Meteorological Data Version Date:  18081

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs External File(s) of High Values for
Plotting (PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked
Values (SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:
c for Calm Hours

m for Missing Hours

b for Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =
1.00 ;  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 =      3.8 MB of
RAM.

 **Input Runstream File:          aermod.inp
 **Output Print File:             aermod.out

 **Detailed Error/Message File:   308-Phelps_Construction-HRA-
MIT_FLAT_20221103.err
 **File for Summary of Results:   308-Phelps_Construction-HRA-
MIT_FLAT_20221103.sum
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** 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	EMISSION RATE SCALAR VARY BY
A0000001	0	0.10047E-07	564107.8	4151209.8	1.0	5.00	66.74	12.19	-152.55	0.00	YES	HRDOW
A0000002	0	0.10047E-07	564050.0	4151239.5	1.0	5.00	27.61	12.19	-135.97	0.00	YES	HRDOW
A0000003	0	0.10047E-07	564031.2	4151257.4	1.0	5.00	45.06	12.19	-119.95	0.00	YES	HRDOW
A0000004	0	0.10047E-07	564006.5	4151298.6	1.0	5.00	31.08	12.19	-149.32	0.00	YES	HRDOW
A0000005	0	0.10047E-07	563980.5	4151314.0	1.0	5.00	25.78	12.19	-141.75	0.00	YES	HRDOW
A0000006	0	0.10047E-07	563961.8	4151328.1	1.0	5.00	57.13	12.19	-118.49	0.00	YES	HRDOW
A0000007	0	0.10047E-07	563934.8	4151377.9	1.0	5.00	52.80	12.19	-113.92	0.00	YES	HRDOW
A0000008	0	0.10047E-07	563910.3	4151429.2	1.0	5.00	15.34	12.19	-156.04	0.00	YES	HRDOW
A0000009	0	0.10047E-07	563892.7	4151435.9	1.0	5.00	17.03	12.19	169.46	0.00	YES	HRDOW
A0000010	0	0.10047E-07	563873.1	4151431.5	1.0	5.00	21.28	12.19	140.19	0.00	YES	HRDOW
A0000011	0	0.10047E-07	563855.9	4151416.9	1.0	5.00	14.33	12.19	128.19	0.00	YES	HRDOW
A0000012	0	0.10047E-07	563846.6	4151405.0	1.0	5.00	32.44	12.19	120.55	0.00	YES	HRDOW
A0000013	0	0.10047E-07	563830.4	4151377.6	1.0	5.00	10.81	12.19	126.38	0.00	YES	HRDOW

```
 A0000014          0   0.10047E-07  563826.0 4151370.6     1.0
5.00     11.48     12.19    151.39     0.00     YES   HRDOW
 A0000015          0   0.10047E-07  563817.8 4151365.8     1.0
5.00     45.43     12.19    170.01     0.00     YES   HRDOW
 A0000016          0   0.10047E-07  563771.0 4151357.1     1.0
5.00     19.90     12.19    148.92     0.00     YES   HRDOW
 A0000017          0   0.38589E-09  564114.9 4151108.5     1.0
4.15      5.04      6.10    120.96     0.00     YES   HRDOW
 A0000018          0   0.38589E-09  564112.9 4151100.3     1.0
4.15     18.10      6.10     40.62     0.00     YES   HRDOW
 A0000019          0   0.38589E-09  564126.6 4151088.5     1.0
4.15     24.86      6.10     41.13     0.00     YES   HRDOW
 A0000020          0   0.38589E-09  564145.1 4151072.4     1.0
4.15     36.51      6.10     46.56     0.00     YES   HRDOW
 A0000021          0   0.38589E-09  564170.8 4151045.4     1.0
4.15     24.28      6.10     32.13     0.00     YES   HRDOW
 A0000022          0   0.38589E-09  564191.6 4151032.4     1.0
4.15     25.63      6.10     27.50     0.00     YES   HRDOW
 A0000023          0   0.38589E-09  564213.7 4151021.0     1.0
4.15     26.31      6.10     41.53     0.00     YES   HRDOW
 A0000024          0   0.38589E-09  564233.1 4151003.8     1.0
4.15     31.89      6.10     49.65     0.00     YES   HRDOW
 A0000025          0   0.38589E-09  564253.8 4150979.5     1.0
4.15     31.34      6.10     48.40     0.00     YES   HRDOW
 A0000026          0   0.38589E-09  564274.3 4150956.5     1.0
4.15     10.83      6.10     59.47     0.00     YES   HRDOW
 A0000027          0   0.38589E-09  564279.6 4150947.4     1.0
4.15     19.03      6.10     64.97     0.00     YES   HRDOW
 A0000028          0   0.38589E-09  564287.5 4150930.8     1.0
4.15     20.27      6.10     76.66     0.00     YES   HRDOW
 A0000029          0   0.38589E-09  564292.1 4150911.2     1.0
4.15      2.67      6.10     79.28     0.00     YES   HRDOW
 A0000030          0   0.38589E-09  564292.6 4150908.6     1.0
4.15     21.69      6.10     79.74     0.00     YES   HRDOW
 A0000031          0   0.38589E-09  564296.5 4150887.4     1.0
4.15     30.13      6.10     82.63     0.00     YES   HRDOW
 A0000032          0   0.38589E-09  564300.3 4150857.5     1.0
4.15      9.86      6.10     81.70     0.00     YES   HRDOW
 A0000033          0   0.38589E-09  564304.8 4150845.1     1.0
4.15     43.99      6.10     -1.06     0.00     YES   HRDOW
 A0000034          0   0.38589E-09  564348.8 4150845.9     1.0
4.15     43.99      6.10     -1.06     0.00     YES   HRDOW
 A0000035          0   0.38589E-09  564392.8 4150846.7     1.0
4.15     43.99      6.10     -1.06     0.00     YES   HRDOW
 A0000036          0   0.38589E-09  564437.2 4150847.6     1.0
4.15     43.99      6.10     -9.22     0.00     YES   HRDOW
 A0000037          0   0.22005E-10  564114.9 4151108.5     1.0
4.15      5.04      6.10    120.94     0.00     YES   HRDOW
 A0000038          0   0.22005E-10  564112.9 4151100.3     1.0
4.15     18.11      6.10     40.63     0.00     YES   HRDOW
 A0000039          0   0.22005E-10  564126.6 4151088.5     1.0
4.15     24.86      6.10     41.13     0.00     YES   HRDOW
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 A0000040          0   0.22005E-10  564145.1 4151072.4     1.0
4.15     36.51      6.10     46.57     0.00     YES   HRDOW
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** 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	EMISSION RATE SCALAR VARY BY
A0000041	0	0.22005E-10	564170.8	4151045.4	1.0	4.15	24.29	6.10	32.11	0.00	YES	HRDOW
A0000042	0	0.22005E-10	564191.6	4151032.4	1.0	4.15	25.62	6.10	27.49	0.00	YES	HRDOW
A0000043	0	0.22005E-10	564213.7	4151021.0	1.0	4.15	26.31	6.10	41.52	0.00	YES	HRDOW
A0000044	0	0.22005E-10	564233.1	4151003.8	1.0	4.15	31.89	6.10	49.67	0.00	YES	HRDOW
A0000045	0	0.22005E-10	564253.8	4150979.5	1.0	4.15	31.34	6.10	48.39	0.00	YES	HRDOW
A0000046	0	0.22005E-10	564274.3	4150956.5	1.0	4.15	10.83	6.10	59.48	0.00	YES	HRDOW
A0000047	0	0.22005E-10	564279.6	4150947.4	1.0	4.15	19.03	6.10	64.97	0.00	YES	HRDOW
A0000048	0	0.22005E-10	564287.5	4150930.8	1.0	4.15	20.26	6.10	76.68	0.00	YES	HRDOW
A0000049	0	0.22005E-10	564292.1	4150911.2	1.0	4.15	2.67	6.10	79.20	0.00	YES	HRDOW
A0000050	0	0.22005E-10	564292.6	4150908.6	1.0	4.15	21.70	6.10	79.75	0.00	YES	HRDOW
A0000051	0	0.22005E-10	564296.5	4150887.4	1.0	4.15	30.13	6.10	82.64	0.00	YES	HRDOW
A0000052	0	0.22005E-10	564300.3	4150857.5	1.0	4.15	9.86	6.10	81.66	0.00	YES	HRDOW
A0000053	0	0.22005E-10	564304.8	4150845.1	1.0	4.15	43.98	6.10	-1.06	0.00	YES	HRDOW

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 A0000054          0   0.22005E-10  564348.8 4150845.9     1.0
4.15     43.98      6.10     -1.06     0.00     YES   HRDOW
 A0000055          0   0.22005E-10  564392.8 4150846.7     1.0
4.15     43.98      6.10     -1.06     0.00     YES   HRDOW
 A0000056          0   0.22005E-10  564437.2 4150847.6     1.0
4.15     43.99      6.10     -9.22     0.00     YES   HRDOW
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** AREAPOLY SOURCE DATA ***

RELEASE	NUMBER	NUMBER	EMISSION RATE		LOCATION OF AREA		BASE	HEIGHT	OF VERTS.	SZ	URBAN	EMISSION RATE
SOURCE ID	PART. CATS.	(GRAMS/SEC /METER**2)		X (METERS)	Y (METERS)	ELEV. (METERS)	(METERS)		(METERS)	SOURCE	SCALAR VARY BY	
PAREA01	0	0.36816E-07		564088.8	4151129.3	1.0	5.00	13	0.00	YES	HRDOW	
PAREA02	0	0.26583E-07		564114.2	4151199.3	1.0	5.00	17	0.00	YES	HRDOW	
PAREA03	0	0.54721E-07		564114.2	4151199.3	1.0	5.00	17	0.00	YES	HRDOW	

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
Y1_ALL	PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 , A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,
Y1_ON	PAREA01 , PAREA02 ,
Y1_OFF	A0000017 , A0000018 , A0000019 , A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,
Y2_ALL	A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 , A0000015 , A0000016 ,

```
             PAREA03     , A0000037    , A0000038    ,
A0000039    , A0000040    , A0000041    , A0000042    ,
A0000043    ,

             A0000044    , A0000045    , A0000046    ,
A0000047    , A0000048    , A0000049    , A0000050    ,
A0000051    ,

             A0000052    , A0000053    , A0000054    ,
A0000055    , A0000056    ,

  Y2_ON-B    PAREA03     ,

  Y2_ON-R    A0000001    , A0000002    , A0000003    ,
A0000004    , A0000005    , A0000006    , A0000007    ,
A0000008    ,

             A0000009    , A0000010    , A0000011    ,
A0000012    , A0000013    , A0000014    , A0000015    ,
A0000016    ,

  Y2_ON-A    A0000001    , A0000002    , A0000003    ,
A0000004    , A0000005    , A0000006    , A0000007    ,
A0000008    ,

             A0000009    , A0000010    , A0000011    ,
A0000012    , A0000013    , A0000014    , A0000015    ,
A0000016    ,

             PAREA03     ,

  Y2_OFF     A0000037    , A0000038    , A0000039    ,
A0000040    , A0000041    , A0000042    , A0000043    ,
A0000044    ,

             A0000045    , A0000046    , A0000047    ,
A0000048    , A0000049    , A0000050    , A0000051    ,
A0000052    ,
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	A0000053 , A0000054 , A0000055 , A0000056 ,

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	4709220.	PAREA01 , PAREA02 , A0000001 , A0000002 , A0000003 , A0000004 , A0000005 , A0000006 ,
		A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 , A0000014 ,
		A0000015 , A0000016 , PAREA03 , A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
		A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
		A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 , A0000037 ,
		A0000038 , A0000039 , A0000040 , A0000041 , A0000042 , A0000043 , A0000044 , A0000045 ,
		A0000046 , A0000047 , A0000048 , A0000049 , A0000050 , A0000051 , A0000052 , A0000053 ,
		A0000054 , A0000055 , A0000056 ,

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA01 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA02 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000001 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000002 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000003 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000004 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000005 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000006 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000007 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000008 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000009 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000010 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000011 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000012 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000013 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000014 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000015 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000016 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = PAREA03 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000017 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000018 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000019 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000020 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000021 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000022 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000023 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000024 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000025 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000026 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000027 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000028 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000029 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000030 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000031 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000032 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000033 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000034 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000035 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000036 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000037 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000038 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000039 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000040 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000041 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000042 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000043 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000044 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000045 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000046 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000047 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000048 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000049 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000050 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000051 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000052 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000053 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000054 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000055 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = A0000056 ; SOURCE TYPE = AREA :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.1000E+01	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00
5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.1000E+01	18	.0000E+00	19	.0000E+00	20	.0000E+00
21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564114.0, 4151261.2, 1.0, 1.0, 1.5);
(564135.6, 4151266.0, 1.0, 1.0, 1.5);
(564119.5, 4151293.7, 1.0, 1.0, 1.5);
(564130.8, 4151312.0, 1.0, 1.0, 1.5);
(564163.1, 4151305.6, 1.0, 1.0, 1.5);
(564177.4, 4151299.7, 1.0, 1.0, 1.5);
(564197.0, 4151291.8, 1.0, 1.0, 1.5);
(564210.1, 4151280.2, 1.0, 1.0, 1.5);
(564220.3, 4151264.1, 1.0, 1.0, 1.5);
(564227.9, 4151247.4, 1.0, 1.0, 1.5);
(564238.5, 4151230.3, 1.0, 1.0, 1.5);
(564240.8, 4151212.6, 1.0, 1.0, 1.5);
(564248.2, 4151198.2, 1.0, 1.0, 1.5);
(564256.4, 4151175.2, 1.0, 1.0, 1.5);
(564269.8, 4151162.1, 1.0, 1.0, 1.5);
(564286.5, 4151151.1, 1.0, 1.0, 1.5);
(564308.1, 4151135.1, 1.0, 1.0, 1.5);
(564329.8, 4151126.4, 1.0, 1.0, 1.5);
(564243.4, 4151128.8, 1.0, 1.0, 1.5);
(564191.2, 4151093.7, 1.0, 1.0, 1.5);
(564176.2, 4151074.5, 1.0, 1.0, 1.5);
(564232.5, 4151110.3, 1.0, 1.0, 1.5);
(564235.2, 4151074.6, 1.0, 1.0, 1.5);
(564247.2, 4151064.7, 1.0, 1.0, 1.5);
(564261.0, 4151054.9, 1.0, 1.0, 1.5);
(564279.3, 4151048.0, 1.0, 1.0, 1.5);
(564092.1, 4151261.5, 1.0, 1.0, 1.5);
(564077.8, 4151271.6, 1.0, 1.0, 1.5);
(564075.9, 4151298.7, 1.0, 1.0, 1.5);
(564092.2, 4151320.1, 1.0, 1.0, 1.5);
(564079.0, 4151329.3, 1.0, 1.0, 1.5);
(564064.0, 4151340.1, 1.0, 1.0, 1.5);
(564053.4, 4151343.6, 1.0, 1.0, 1.5);
(564038.5, 4151353.0, 1.0, 1.0, 1.5);
(564026.3, 4151362.6, 1.0, 1.0, 1.5);

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( 564014.6, 4151371.3,       1.0,       1.0,       1.5);
     ( 564004.2, 4151385.0,       1.0,       1.0,       1.5);
( 563986.5, 4151397.0,       1.0,       1.0,       1.5);
     ( 563975.1, 4151409.4,       1.0,       1.0,       1.5);
( 563813.0, 4151377.7,       1.0,       1.0,       1.5);
     ( 563786.5, 4151378.7,       1.0,       1.0,       1.5);
( 563747.3, 4151364.6,       1.0,       1.0,       1.5);
     ( 563732.6, 4151348.6,       1.0,       1.0,       1.5);
( 564252.6, 4151299.4,       1.0,       1.0,       1.5);
     ( 564270.1, 4151278.8,       1.0,       1.0,       1.5);
( 564280.8, 4151263.0,       1.0,       1.0,       1.5);
     ( 564299.6, 4151254.3,       1.0,       1.0,       1.5);
( 564320.8, 4151241.4,       1.0,       1.0,       1.5);
     ( 564338.5, 4151199.7,       1.0,       1.0,       1.5);
( 564223.1, 4151086.5,       1.0,       1.0,       1.5);
     ( 564223.1, 4151100.2,       1.0,       1.0,       1.5);
( 564207.5, 4151007.2,       1.0,       1.0,       1.5);
     ( 564220.5, 4150997.8,       1.0,       1.0,       1.5);
( 564231.2, 4150986.3,       1.0,       1.0,       1.5);
     ( 564270.6, 4151004.2,       1.0,       1.0,       1.5);
( 564293.3, 4151001.3,       1.0,       1.0,       1.5);
     ( 564316.5, 4150997.7,       1.0,       1.0,       1.5);
( 564190.9, 4150987.8,       1.0,       1.0,       1.5);
     ( 564158.6, 4151084.8,       1.0,       1.0,       1.5);
( 563684.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 563734.0, 4150687.0,       1.0,       1.0,       1.5);
( 563784.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 563834.0, 4150687.0,       1.0,       1.0,       1.5);
( 563884.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 563934.0, 4150687.0,       1.0,       1.0,       1.5);
( 563984.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4150687.0,       1.0,       1.0,       1.5);
( 564084.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4150687.0,       1.0,       1.0,       1.5);
( 564184.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564234.0, 4150687.0,       1.0,       1.0,       1.5);
( 564284.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564334.0, 4150687.0,       1.0,       1.0,       1.5);
( 564384.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564434.0, 4150687.0,       1.0,       1.0,       1.5);
( 564484.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564534.0, 4150687.0,       1.0,       1.0,       1.5);
( 564584.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 564634.0, 4150687.0,       1.0,       1.0,       1.5);
( 564684.0, 4150687.0,       1.0,       1.0,       1.5);
     ( 563684.0, 4150737.0,       1.0,       1.0,       1.5);
( 563734.0, 4150737.0,       1.0,       1.0,       1.5);
     ( 563784.0, 4150737.0,       1.0,       1.0,       1.5);
( 563834.0, 4150737.0,       1.0,       1.0,       1.5);
     ( 563884.0, 4150737.0,       1.0,       1.0,       1.5);
( 563934.0, 4150737.0,       1.0,       1.0,       1.5);
     ( 563984.0, 4150737.0,       1.0,       1.0,       1.5);
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( 564034.0, 4150737.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4150737.0,       1.0,       1.0,       1.5);
( 564134.0, 4150737.0,       1.0,       1.0,       1.5);
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564184.0, 4150737.0, 1.0, 1.0, 1.5);
(564234.0, 4150737.0, 1.0, 1.0, 1.5);
(564284.0, 4150737.0, 1.0, 1.0, 1.5);
(564334.0, 4150737.0, 1.0, 1.0, 1.5);
(564384.0, 4150737.0, 1.0, 1.0, 1.5);
(564434.0, 4150737.0, 1.0, 1.0, 1.5);
(564484.0, 4150737.0, 1.0, 1.0, 1.5);
(564534.0, 4150737.0, 1.0, 1.0, 1.5);
(564584.0, 4150737.0, 1.0, 1.0, 1.5);
(564634.0, 4150737.0, 1.0, 1.0, 1.5);
(564684.0, 4150737.0, 1.0, 1.0, 1.5);
(563684.0, 4150787.0, 1.0, 1.0, 1.5);
(563734.0, 4150787.0, 1.0, 1.0, 1.5);
(563784.0, 4150787.0, 1.0, 1.0, 1.5);
(563834.0, 4150787.0, 1.0, 1.0, 1.5);
(563884.0, 4150787.0, 1.0, 1.0, 1.5);
(563934.0, 4150787.0, 1.0, 1.0, 1.5);
(563984.0, 4150787.0, 1.0, 1.0, 1.5);
(564034.0, 4150787.0, 1.0, 1.0, 1.5);
(564084.0, 4150787.0, 1.0, 1.0, 1.5);
(564134.0, 4150787.0, 1.0, 1.0, 1.5);
(564184.0, 4150787.0, 1.0, 1.0, 1.5);
(564234.0, 4150787.0, 1.0, 1.0, 1.5);
(564284.0, 4150787.0, 1.0, 1.0, 1.5);
(564334.0, 4150787.0, 1.0, 1.0, 1.5);
(564384.0, 4150787.0, 1.0, 1.0, 1.5);
(564434.0, 4150787.0, 1.0, 1.0, 1.5);
(564484.0, 4150787.0, 1.0, 1.0, 1.5);
(564534.0, 4150787.0, 1.0, 1.0, 1.5);
(564584.0, 4150787.0, 1.0, 1.0, 1.5);
(564634.0, 4150787.0, 1.0, 1.0, 1.5);
(564684.0, 4150787.0, 1.0, 1.0, 1.5);
(563684.0, 4150837.0, 1.0, 1.0, 1.5);
(563734.0, 4150837.0, 1.0, 1.0, 1.5);
(563784.0, 4150837.0, 1.0, 1.0, 1.5);

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( 563834.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 563884.0, 4150837.0,       1.0,       1.0,       1.5);
( 563934.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 563984.0, 4150837.0,       1.0,       1.0,       1.5);
( 564034.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4150837.0,       1.0,       1.0,       1.5);
( 564134.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564184.0, 4150837.0,       1.0,       1.0,       1.5);
( 564234.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564284.0, 4150837.0,       1.0,       1.0,       1.5);
( 564334.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564384.0, 4150837.0,       1.0,       1.0,       1.5);
( 564434.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564484.0, 4150837.0,       1.0,       1.0,       1.5);
( 564534.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564584.0, 4150837.0,       1.0,       1.0,       1.5);
( 564634.0, 4150837.0,       1.0,       1.0,       1.5);
     ( 564684.0, 4150837.0,       1.0,       1.0,       1.5);
( 563684.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 563734.0, 4150887.0,       1.0,       1.0,       1.5);
( 563784.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 563834.0, 4150887.0,       1.0,       1.0,       1.5);
( 563884.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 563934.0, 4150887.0,       1.0,       1.0,       1.5);
( 563984.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4150887.0,       1.0,       1.0,       1.5);
( 564084.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4150887.0,       1.0,       1.0,       1.5);
( 564184.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564234.0, 4150887.0,       1.0,       1.0,       1.5);
( 564284.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564334.0, 4150887.0,       1.0,       1.0,       1.5);
( 564384.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564434.0, 4150887.0,       1.0,       1.0,       1.5);
( 564484.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564534.0, 4150887.0,       1.0,       1.0,       1.5);
( 564584.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 564634.0, 4150887.0,       1.0,       1.0,       1.5);
( 564684.0, 4150887.0,       1.0,       1.0,       1.5);
     ( 563684.0, 4150937.0,       1.0,       1.0,       1.5);
( 563734.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 563784.0, 4150937.0,       1.0,       1.0,       1.5);
( 563834.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 563884.0, 4150937.0,       1.0,       1.0,       1.5);
( 563934.0, 4150937.0,       1.0,       1.0,       1.5);
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( 564134.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 564184.0, 4150937.0,       1.0,       1.0,       1.5);
( 564234.0, 4150937.0,       1.0,       1.0,       1.5);
     ( 564284.0, 4150937.0,       1.0,       1.0,       1.5);
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     ( 564384.0, 4150937.0,       1.0,       1.0,       1.5);
( 564434.0, 4150937.0,       1.0,       1.0,       1.5);
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

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( 563784.0, 4151187.0,       1.0,       1.0,       1.5);
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

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( 564234.0, 4151387.0,       1.0,       1.0,       1.5);
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

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( 564284.0, 4151537.0,       1.0,       1.0,       1.5);
     ( 564334.0, 4151537.0,       1.0,       1.0,       1.5);
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     ( 564184.0, 4151587.0,       1.0,       1.0,       1.5);
( 564234.0, 4151587.0,       1.0,       1.0,       1.5);
     ( 564284.0, 4151587.0,       1.0,       1.0,       1.5);
( 564334.0, 4151587.0,       1.0,       1.0,       1.5);
     ( 564384.0, 4151587.0,       1.0,       1.0,       1.5);
```

```
( 564434.0, 4151587.0,       1.0,       1.0,       1.5);
     ( 564484.0, 4151587.0,       1.0,       1.0,       1.5);
( 564534.0, 4151587.0,       1.0,       1.0,       1.5);
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564584.0, 4151587.0, 1.0, 1.0, 1.5);
(564634.0, 4151587.0, 1.0, 1.0, 1.5);
(564684.0, 4151587.0, 1.0, 1.0, 1.5);
(563684.0, 4151637.0, 1.0, 1.0, 1.5);
(563734.0, 4151637.0, 1.0, 1.0, 1.5);
(563784.0, 4151637.0, 1.0, 1.0, 1.5);
(563834.0, 4151637.0, 1.0, 1.0, 1.5);
(563884.0, 4151637.0, 1.0, 1.0, 1.5);
(563934.0, 4151637.0, 1.0, 1.0, 1.5);
(563984.0, 4151637.0, 1.0, 1.0, 1.5);
(564034.0, 4151637.0, 1.0, 1.0, 1.5);
(564084.0, 4151637.0, 1.0, 1.0, 1.5);
(564134.0, 4151637.0, 1.0, 1.0, 1.5);
(564184.0, 4151637.0, 1.0, 1.0, 1.5);
(564234.0, 4151637.0, 1.0, 1.0, 1.5);
(564284.0, 4151637.0, 1.0, 1.0, 1.5);
(564334.0, 4151637.0, 1.0, 1.0, 1.5);
(564384.0, 4151637.0, 1.0, 1.0, 1.5);
(564434.0, 4151637.0, 1.0, 1.0, 1.5);
(564484.0, 4151637.0, 1.0, 1.0, 1.5);
(564534.0, 4151637.0, 1.0, 1.0, 1.5);
(564584.0, 4151637.0, 1.0, 1.0, 1.5);
(564634.0, 4151637.0, 1.0, 1.0, 1.5);
(564684.0, 4151637.0, 1.0, 1.0, 1.5);
(563684.0, 4151687.0, 1.0, 1.0, 1.5);
(563734.0, 4151687.0, 1.0, 1.0, 1.5);
(563784.0, 4151687.0, 1.0, 1.0, 1.5);
(563834.0, 4151687.0, 1.0, 1.0, 1.5);
(563884.0, 4151687.0, 1.0, 1.0, 1.5);
(563934.0, 4151687.0, 1.0, 1.0, 1.5);
(563984.0, 4151687.0, 1.0, 1.0, 1.5);
(564034.0, 4151687.0, 1.0, 1.0, 1.5);
(564084.0, 4151687.0, 1.0, 1.0, 1.5);
(564134.0, 4151687.0, 1.0, 1.0, 1.5);
(564184.0, 4151687.0, 1.0, 1.0, 1.5);

```
( 564234.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564284.0, 4151687.0,       1.0,       1.0,       1.5);
( 564334.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564384.0, 4151687.0,       1.0,       1.0,       1.5);
( 564434.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564484.0, 4151687.0,       1.0,       1.0,       1.5);
( 564534.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564584.0, 4151687.0,       1.0,       1.0,       1.5);
( 564634.0, 4151687.0,       1.0,       1.0,       1.5);
     ( 564684.0, 4151687.0,       1.0,       1.0,       1.5);
( 564024.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4150977.0,       1.0,       1.0,       1.5);
( 564044.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564054.0, 4150977.0,       1.0,       1.0,       1.5);
( 564064.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564074.0, 4150977.0,       1.0,       1.0,       1.5);
( 564084.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564094.0, 4150977.0,       1.0,       1.0,       1.5);
( 564104.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564114.0, 4150977.0,       1.0,       1.0,       1.5);
( 564124.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4150977.0,       1.0,       1.0,       1.5);
( 564144.0, 4150977.0,       1.0,       1.0,       1.5);
     ( 564024.0, 4150987.0,       1.0,       1.0,       1.5);
( 564034.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564044.0, 4150987.0,       1.0,       1.0,       1.5);
( 564054.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564064.0, 4150987.0,       1.0,       1.0,       1.5);
( 564074.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4150987.0,       1.0,       1.0,       1.5);
( 564094.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564104.0, 4150987.0,       1.0,       1.0,       1.5);
( 564114.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564124.0, 4150987.0,       1.0,       1.0,       1.5);
( 564134.0, 4150987.0,       1.0,       1.0,       1.5);
     ( 564144.0, 4150987.0,       1.0,       1.0,       1.5);
( 564024.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4150997.0,       1.0,       1.0,       1.5);
( 564044.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564054.0, 4150997.0,       1.0,       1.0,       1.5);
( 564064.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564074.0, 4150997.0,       1.0,       1.0,       1.5);
( 564084.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564094.0, 4150997.0,       1.0,       1.0,       1.5);
( 564104.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564114.0, 4150997.0,       1.0,       1.0,       1.5);
( 564124.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4150997.0,       1.0,       1.0,       1.5);
( 564144.0, 4150997.0,       1.0,       1.0,       1.5);
     ( 564024.0, 4151007.0,       1.0,       1.0,       1.5);
( 564034.0, 4151007.0,       1.0,       1.0,       1.5);
     ( 564044.0, 4151007.0,       1.0,       1.0,       1.5);
```

```
( 564054.0, 4151007.0,       1.0,       1.0,       1.5);
     ( 564064.0, 4151007.0,       1.0,       1.0,       1.5);
( 564074.0, 4151007.0,       1.0,       1.0,       1.5);
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564084.0, 4151007.0, 1.0, 1.0, 1.5);
(564094.0, 4151007.0, 1.0, 1.0, 1.5);
(564104.0, 4151007.0, 1.0, 1.0, 1.5);
(564114.0, 4151007.0, 1.0, 1.0, 1.5);
(564124.0, 4151007.0, 1.0, 1.0, 1.5);
(564134.0, 4151007.0, 1.0, 1.0, 1.5);
(564144.0, 4151007.0, 1.0, 1.0, 1.5);
(564024.0, 4151017.0, 1.0, 1.0, 1.5);
(564034.0, 4151017.0, 1.0, 1.0, 1.5);
(564044.0, 4151017.0, 1.0, 1.0, 1.5);
(564054.0, 4151017.0, 1.0, 1.0, 1.5);
(564064.0, 4151017.0, 1.0, 1.0, 1.5);
(564074.0, 4151017.0, 1.0, 1.0, 1.5);
(564084.0, 4151017.0, 1.0, 1.0, 1.5);
(564094.0, 4151017.0, 1.0, 1.0, 1.5);
(564104.0, 4151017.0, 1.0, 1.0, 1.5);
(564114.0, 4151017.0, 1.0, 1.0, 1.5);
(564124.0, 4151017.0, 1.0, 1.0, 1.5);
(564134.0, 4151017.0, 1.0, 1.0, 1.5);
(564144.0, 4151017.0, 1.0, 1.0, 1.5);
(564024.0, 4151027.0, 1.0, 1.0, 1.5);
(564034.0, 4151027.0, 1.0, 1.0, 1.5);
(564044.0, 4151027.0, 1.0, 1.0, 1.5);
(564054.0, 4151027.0, 1.0, 1.0, 1.5);
(564064.0, 4151027.0, 1.0, 1.0, 1.5);
(564074.0, 4151027.0, 1.0, 1.0, 1.5);
(564084.0, 4151027.0, 1.0, 1.0, 1.5);
(564094.0, 4151027.0, 1.0, 1.0, 1.5);
(564104.0, 4151027.0, 1.0, 1.0, 1.5);
(564114.0, 4151027.0, 1.0, 1.0, 1.5);
(564124.0, 4151027.0, 1.0, 1.0, 1.5);
(564134.0, 4151027.0, 1.0, 1.0, 1.5);
(564144.0, 4151027.0, 1.0, 1.0, 1.5);
(564024.0, 4151037.0, 1.0, 1.0, 1.5);
(564034.0, 4151037.0, 1.0, 1.0, 1.5);

```
( 564044.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564054.0, 4151037.0,       1.0,       1.0,       1.5);
( 564064.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564074.0, 4151037.0,       1.0,       1.0,       1.5);
( 564084.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564094.0, 4151037.0,       1.0,       1.0,       1.5);
( 564104.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564114.0, 4151037.0,       1.0,       1.0,       1.5);
( 564124.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4151037.0,       1.0,       1.0,       1.5);
( 564144.0, 4151037.0,       1.0,       1.0,       1.5);
     ( 564024.0, 4151047.0,       1.0,       1.0,       1.5);
( 564034.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564044.0, 4151047.0,       1.0,       1.0,       1.5);
( 564054.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564064.0, 4151047.0,       1.0,       1.0,       1.5);
( 564074.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4151047.0,       1.0,       1.0,       1.5);
( 564094.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564104.0, 4151047.0,       1.0,       1.0,       1.5);
( 564114.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564124.0, 4151047.0,       1.0,       1.0,       1.5);
( 564134.0, 4151047.0,       1.0,       1.0,       1.5);
     ( 564144.0, 4151047.0,       1.0,       1.0,       1.5);
( 564024.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564034.0, 4151057.0,       1.0,       1.0,       1.5);
( 564044.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564054.0, 4151057.0,       1.0,       1.0,       1.5);
( 564064.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564074.0, 4151057.0,       1.0,       1.0,       1.5);
( 564084.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564094.0, 4151057.0,       1.0,       1.0,       1.5);
( 564104.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564114.0, 4151057.0,       1.0,       1.0,       1.5);
( 564124.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564134.0, 4151057.0,       1.0,       1.0,       1.5);
( 564144.0, 4151057.0,       1.0,       1.0,       1.5);
     ( 564024.0, 4151067.0,       1.0,       1.0,       1.5);
( 564034.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564044.0, 4151067.0,       1.0,       1.0,       1.5);
( 564054.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564064.0, 4151067.0,       1.0,       1.0,       1.5);
( 564074.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564084.0, 4151067.0,       1.0,       1.0,       1.5);
( 564094.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564104.0, 4151067.0,       1.0,       1.0,       1.5);
( 564114.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564124.0, 4151067.0,       1.0,       1.0,       1.5);
( 564134.0, 4151067.0,       1.0,       1.0,       1.5);
     ( 564144.0, 4151067.0,       1.0,       1.0,       1.5);
( 564108.0, 4151218.0,       1.0,       1.0,       1.5);
     ( 564126.9, 4151212.5,       1.0,       1.0,       1.5);
```

```
( 564146.6, 4151252.7,       1.0,       1.0,       1.5);
     ( 564179.2, 4151251.6,       1.0,       1.0,       1.5);
( 564210.5, 4151177.5,       1.0,       1.0,       1.5);
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

(METERS)

(564208.8, 4151145.2, 1.0, 1.0, 1.5);
(564183.2, 4151110.2, 1.0, 1.0, 1.5);
(564162.9, 4151096.4, 1.0, 1.0, 1.5);
(564148.6, 4151092.8, 1.0, 1.0, 1.5);
(564126.0, 4151099.0, 1.0, 1.0, 1.5);
(564088.3, 4151128.8, 1.0, 1.0, 1.5);

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** 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
```

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

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

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

Surface file: C:\Users\sjremote\Desktop\308-Phelps\San_Carlos_2013-2017\SAN_CARLOS_2013-2017 S Met Version: 18081
Profile file: C:\Users\sjremote\Desktop\308-Phelps\San_Carlos_2013-2017\SAN_CARLOS_2013-2017 P
Surface format: FREE
Profile format: FREE
Surface station no.: 23254 Upper air station no.: 23230
Name: SAN_CARLOS_AIRPORT Name: OAKLAND/WSO_AP
Year: 2013 Year: 2013

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
13	01	01	1	01	-1.6	0.048	-9.000	-9.000	-999.	25.	6.1	0.34	1.14	1.00	0.90	159.	15.0	277.6	8.8
13	01	01	1	02	-1.7	0.050	-9.000	-9.000	-999.	27.	7.0	0.09	1.14	1.00	1.30	354.	15.0	277.4	8.8
13	01	01	1	03	-3.5	0.079	-9.000	-9.000	-999.	54.	12.8	0.34	1.14	1.00	1.50	156.	15.0	277.9	8.8
13	01	01	1	04	-0.4	0.024	-9.000	-9.000	-999.	11.	2.9	0.04	1.14	1.00	0.70	151.	15.0	277.4	8.8
13	01	01	1	05	-1.4	0.045	-9.000	-9.000	-999.	23.	5.9	0.04	1.14	1.00	1.30	136.	15.0	278.2	8.8
13	01	01	1	06	-1.1	0.043	-9.000	-9.000	-999.	22.	6.7	0.23	1.14	1.00	0.90	300.	15.0	278.4	8.8
13	01	01	1	07	-1.4	0.048	-9.000	-9.000	-999.	25.	7.4	0.23	1.14	1.00	1.00	255.	15.0	278.8	8.8
13	01	01	1	08	-2.7	0.067	-9.000	-9.000	-999.	42.	10.4	0.23	1.14	0.74	1.40	296.	15.0	278.9	8.8
13	01	01	1	09	4.3	0.181	0.171	0.005	43.	185.	-127.0	0.09	1.14	0.38	2.20	340.	15.0	279.5	8.8
13	01	01	1	10	55.5	0.292	0.610	0.005	149.	379.	-41.0	0.09	1.14	0.26	3.30	26.	15.0	280.0	8.8

```
 13 01 01   1 11   94.9  0.234  1.017  0.005  405.  273.    -12.4
0.04   1.14   0.21    2.70   43.   15.0  280.8    8.8
 13 01 01   1 12  117.4  0.165  1.393  0.008  842.  162.     -3.5
0.04   1.14   0.20    1.60   58.   15.0  281.9    8.8
 13 01 01   1 13  121.5  0.200  1.448  0.007  913.  214.     -6.0
0.04   1.14   0.19    2.10   50.   15.0  282.8    8.8
 13 01 01   1 14  107.1  0.321  1.405  0.007  945.  435.    -28.0
0.04   1.14   0.20    4.00   44.   15.0  283.9    8.8
 13 01 01   1 15   68.3  0.330  1.218  0.006  965.  456.    -48.2
0.04   1.14   0.23    4.30   52.   15.0  284.0    8.8
 13 01 01   1 16   27.3  0.252  0.900  0.006  973.  306.    -53.3
0.04   1.14   0.31    3.30   52.   15.0  284.2    8.8
 13 01 01   1 17   -7.1  0.096 -9.000 -9.000 -999.   96.     11.4
0.04   1.14   0.55    2.80   55.   15.0  283.8    8.8
 13 01 01   1 18   -8.2  0.096 -9.000 -9.000 -999.   72.     10.0
0.04   1.14   1.00    2.80   74.   15.0  282.4    8.8
 13 01 01   1 19   -4.7  0.072 -9.000 -9.000 -999.   47.      7.3
0.04   1.14   1.00    2.10  150.   15.0  281.2    8.8
 13 01 01   1 20   -4.6  0.079 -9.000 -9.000 -999.   54.      9.9
0.34   1.14   1.00    1.50  186.   15.0  280.4    8.8
 13 01 01   1 21   -1.6  0.048 -9.000 -9.000 -999.   25.      6.0
0.34   1.14   1.00    0.90  172.   15.0  279.4    8.8
 13 01 01   1 22   -1.5  0.041 -9.000 -9.000 -999.   20.      4.2
0.04   1.14   1.00    1.20  151.   15.0  278.0    8.8
 13 01 01   1 23   -2.4  0.052 -9.000 -9.000 -999.   28.      5.2
0.04   1.14   1.00    1.50  130.   15.0  277.0    8.8
 13 01 01   1 24   -1.7  0.048 -9.000 -9.000 -999.   25.      5.9
0.34   1.14   1.00    0.90  182.   15.0  276.1    8.8


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW
sigmaV
 13 01 01 01    8.8 0 -999.  -99.00   277.7
999.0  -99.00  -99.00
 13 01 01 01   15.0 1  159.    0.90  -999.0   40.1  -99.00
0.50

 F indicates top of profile (=1) or below (=0)
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564114.01	4151261.20	0.00585	564135.61	4151266.04	0.00539
564119.54	4151293.69	0.00261	564130.77	4151312.01	0.00173
564163.09	4151305.62	0.00165	564177.44	4151299.74	0.00167
564196.97	4151291.79	0.00172	564210.10	4151280.21	0.00206
564220.30	4151264.14	0.00309	564227.90	4151247.38	0.00481
564238.45	4151230.27	0.00654	564240.80	4151212.56	0.00913
564248.22	4151198.20	0.01028	564256.35	4151175.24	0.01169
564269.75	4151162.08	0.01019	564286.49	4151151.08	0.00822
564308.10	4151135.11	0.00630	564329.77	4151126.39	0.00492
564243.38	4151128.82	0.01724			

564191.23 4151093.66 0.02996
564176.16 4151074.52 0.02296
564232.45 4151110.30 0.01921
564235.20 4151074.64 0.01277
564247.20 4151064.67 0.00996
564261.03 4151054.91 0.00785
564279.33 4151048.00 0.00620
564092.05 4151261.51 0.00487
564077.80 4151271.65 0.00358
564075.89 4151298.68 0.00225
564092.20 4151320.13 0.00163
564079.00 4151329.27 0.00142
564064.02 4151340.14 0.00122
564053.40 4151343.64 0.00116
564038.54 4151353.00 0.00102
564026.30 4151362.62 0.00091
564014.58 4151371.30 0.00082
564004.15 4151384.96 0.00071
563986.52 4151397.01 0.00063
563975.05 4151409.36 0.00056
563812.99 4151377.74 0.00037
563786.51 4151378.74 0.00033
563747.29 4151364.63 0.00029
563732.55 4151348.64 0.00029
564252.63 4151299.36 0.00117
564270.08 4151278.80 0.00164
564280.78 4151263.04 0.00215
564299.64 4151254.31 0.00225
564320.76 4151241.36 0.00241
564338.49 4151199.69 0.00338
564223.05 4151086.47 0.01737
564223.05 4151100.23 0.02060
564207.53 4151007.19 0.00688
564220.50 4150997.85 0.00597
564231.22 4150986.27 0.00512
564270.64 4151004.25 0.00485
564293.29 4151001.31 0.00407
564316.46 4150997.68 0.00339
564190.93 4150987.82 0.00544
564158.55 4151084.80 0.02910
563684.00 4150687.00 0.00017
563734.00 4150687.00 0.00019
563784.00 4150687.00 0.00021
563834.00 4150687.00 0.00023
563884.00 4150687.00 0.00026
563934.00 4150687.00 0.00029
563984.00 4150687.00 0.00032
564034.00 4150687.00 0.00037
564084.00 4150687.00 0.00043
564134.00 4150687.00 0.00051
564184.00 4150687.00 0.00061
564234.00 4150687.00 0.00069

```
564284.00    4150687.00        0.00074
         564334.00    4150687.00        0.00074
564384.00    4150687.00        0.00070
         564434.00    4150687.00        0.00064
564484.00    4150687.00        0.00058
         564534.00    4150687.00        0.00052
564584.00    4150687.00        0.00046
         564634.00    4150687.00        0.00042
564684.00    4150687.00        0.00038
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
563684.00	4150737.00	0.00019	563734.00	4150737.00	0.00022
563784.00	4150737.00	0.00024	563834.00	4150737.00	0.00027
563884.00	4150737.00	0.00031	563934.00	4150737.00	0.00034
563984.00	4150737.00	0.00039	564034.00	4150737.00	0.00045
564084.00	4150737.00	0.00053	564134.00	4150737.00	0.00064
564184.00	4150737.00	0.00077	564234.00	4150737.00	0.00088
564284.00	4150737.00	0.00093	564334.00	4150737.00	0.00091
564384.00	4150737.00	0.00084	564434.00	4150737.00	0.00075
564484.00	4150737.00	0.00066	564534.00	4150737.00	0.00058
564584.00	4150737.00	0.00052			

564634.00 4150737.00 0.00046
564684.00 4150737.00 0.00041
563684.00 4150787.00 0.00022
563734.00 4150787.00 0.00025
563784.00 4150787.00 0.00028
563834.00 4150787.00 0.00032
563884.00 4150787.00 0.00037
563934.00 4150787.00 0.00042
563984.00 4150787.00 0.00048
564034.00 4150787.00 0.00056
564084.00 4150787.00 0.00067
564134.00 4150787.00 0.00083
564184.00 4150787.00 0.00102
564234.00 4150787.00 0.00115
564284.00 4150787.00 0.00119
564334.00 4150787.00 0.00113
564384.00 4150787.00 0.00101
564434.00 4150787.00 0.00088
564484.00 4150787.00 0.00076
564534.00 4150787.00 0.00066
564584.00 4150787.00 0.00058
564634.00 4150787.00 0.00051
564684.00 4150787.00 0.00045
563684.00 4150837.00 0.00024
563734.00 4150837.00 0.00028
563784.00 4150837.00 0.00033
563834.00 4150837.00 0.00039
563884.00 4150837.00 0.00045
563934.00 4150837.00 0.00052
563984.00 4150837.00 0.00061
564034.00 4150837.00 0.00072
564084.00 4150837.00 0.00088
564134.00 4150837.00 0.00112
564184.00 4150837.00 0.00139
564234.00 4150837.00 0.00156
564284.00 4150837.00 0.00157
564334.00 4150837.00 0.00145
564384.00 4150837.00 0.00125
564434.00 4150837.00 0.00107
564484.00 4150837.00 0.00089
564534.00 4150837.00 0.00075
564584.00 4150837.00 0.00064
564634.00 4150837.00 0.00056
564684.00 4150837.00 0.00049
563684.00 4150887.00 0.00026
563734.00 4150887.00 0.00031
563784.00 4150887.00 0.00038
563834.00 4150887.00 0.00046
563884.00 4150887.00 0.00055
563934.00 4150887.00 0.00067
563984.00 4150887.00 0.00079
564034.00 4150887.00 0.00096

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564084.00    4150887.00        0.00121
         564134.00    4150887.00        0.00159
564184.00    4150887.00        0.00200
         564234.00    4150887.00        0.00219
564284.00    4150887.00        0.00210
         564334.00    4150887.00        0.00179
564384.00    4150887.00        0.00146
         564434.00    4150887.00        0.00120
564484.00    4150887.00        0.00100
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564534.00	4150887.00	0.00083	564584.00	4150887.00	0.00071
564634.00	4150887.00	0.00060	564684.00	4150887.00	0.00052
563684.00	4150937.00	0.00028	563734.00	4150937.00	0.00034
563784.00	4150937.00	0.00043	563834.00	4150937.00	0.00054
563884.00	4150937.00	0.00068	563934.00	4150937.00	0.00086
563984.00	4150937.00	0.00108	564034.00	4150937.00	0.00135
564084.00	4150937.00	0.00176	564134.00	4150937.00	0.00242
564184.00	4150937.00	0.00309	564234.00	4150937.00	0.00324
564284.00	4150937.00	0.00285	564334.00	4150937.00	0.00226
564384.00	4150937.00	0.00176			

```
564434.00    4150937.00        0.00140
         564484.00    4150937.00        0.00113
564534.00    4150937.00        0.00093
         564584.00    4150937.00        0.00077
564634.00    4150937.00        0.00065
         564684.00    4150937.00        0.00055
563684.00    4150987.00        0.00030
         563734.00    4150987.00        0.00037
563784.00    4150987.00        0.00047
         563834.00    4150987.00        0.00062
563884.00    4150987.00        0.00082
         563934.00    4150987.00        0.00111
563984.00    4150987.00        0.00151
         564034.00    4150987.00        0.00204
564084.00    4150987.00        0.00282
         564134.00    4150987.00        0.00412
564184.00    4150987.00        0.00532
         564234.00    4150987.00        0.00511
564284.00    4150987.00        0.00394
         564334.00    4150987.00        0.00287
564384.00    4150987.00        0.00212
         564434.00    4150987.00        0.00162
564484.00    4150987.00        0.00127
         564534.00    4150987.00        0.00101
564584.00    4150987.00        0.00083
         564634.00    4150987.00        0.00069
564684.00    4150987.00        0.00058
         563684.00    4151037.00        0.00032
563734.00    4151037.00        0.00040
         563784.00    4151037.00        0.00051
563834.00    4151037.00        0.00069
         563884.00    4151037.00        0.00096
563934.00    4151037.00        0.00139
         563984.00    4151037.00        0.00211
564034.00    4151037.00        0.00329
         564084.00    4151037.00        0.00527
564134.00    4151037.00        0.00867
         564184.00    4151037.00        0.01091
564234.00    4151037.00        0.00852
         564284.00    4151037.00        0.00551
564334.00    4151037.00        0.00361
         564384.00    4151037.00        0.00251
564434.00    4151037.00        0.00183
         564484.00    4151037.00        0.00139
564534.00    4151037.00        0.00109
         564584.00    4151037.00        0.00087
564634.00    4151037.00        0.00072
         564684.00    4151037.00        0.00060
563684.00    4151087.00        0.00033
         563734.00    4151087.00        0.00042
563784.00    4151087.00        0.00055
         563834.00    4151087.00        0.00074
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563884.00    4151087.00        0.00107
         563934.00    4151087.00        0.00164
563984.00    4151087.00        0.00276
         564034.00    4151087.00        0.00529
564084.00    4151087.00        0.01180
         564134.00    4151087.00        0.02664
564184.00    4151087.00        0.02832
         564234.00    4151087.00        0.01486
564284.00    4151087.00        0.00749
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564334.00	4151087.00	0.00437	564384.00	4151087.00	0.00285
564434.00	4151087.00	0.00200	564484.00	4151087.00	0.00148
564534.00	4151087.00	0.00114	564584.00	4151087.00	0.00090
564634.00	4151087.00	0.00073	564684.00	4151087.00	0.00060
563684.00	4151137.00	0.00034	563734.00	4151137.00	0.00043
563784.00	4151137.00	0.00057	563834.00	4151137.00	0.00077
563884.00	4151137.00	0.00112	563934.00	4151137.00	0.00176
563984.00	4151137.00	0.00314	564034.00	4151137.00	0.00698
564084.00	4151137.00	0.02178	564234.00	4151137.00	0.02138
564284.00	4151137.00	0.00869			

```
564334.00    4151137.00        0.00469
         564384.00    4151137.00        0.00294
564434.00    4151137.00        0.00202
         564484.00    4151137.00        0.00147
564534.00    4151137.00        0.00112
         564584.00    4151137.00        0.00088
564634.00    4151137.00        0.00071
         564684.00    4151137.00        0.00059
563684.00    4151187.00        0.00033
         563734.00    4151187.00        0.00042
563784.00    4151187.00        0.00055
         563834.00    4151187.00        0.00075
563884.00    4151187.00        0.00107
         563934.00    4151187.00        0.00166
563984.00    4151187.00        0.00288
         564034.00    4151187.00        0.00611
564084.00    4151187.00        0.01838
         564234.00    4151187.00        0.01573
564284.00    4151187.00        0.00687
         564334.00    4151187.00        0.00389
564384.00    4151187.00        0.00252
         564434.00    4151187.00        0.00176
564484.00    4151187.00        0.00131
         564534.00    4151187.00        0.00101
564584.00    4151187.00        0.00080
         564634.00    4151187.00        0.00065
564684.00    4151187.00        0.00054
         563684.00    4151237.00        0.00031
563734.00    4151237.00        0.00039
         563784.00    4151237.00        0.00050
563834.00    4151237.00        0.00066
         563884.00    4151237.00        0.00092
563934.00    4151237.00        0.00136
         563984.00    4151237.00        0.00217
564034.00    4151237.00        0.00382
         564084.00    4151237.00        0.00745
564134.00    4151237.00        0.01417
         564234.00    4151237.00        0.00591
564284.00    4151237.00        0.00345
         564334.00    4151237.00        0.00233
564384.00    4151237.00        0.00169
         564434.00    4151237.00        0.00128
564484.00    4151237.00        0.00100
         564534.00    4151237.00        0.00080
564584.00    4151237.00        0.00066
         564634.00    4151237.00        0.00055
564684.00    4151237.00        0.00046
         563684.00    4151287.00        0.00028
563734.00    4151287.00        0.00034
         563784.00    4151287.00        0.00043
563834.00    4151287.00        0.00056
         563884.00    4151287.00        0.00074
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563934.00    4151287.00        0.00103
         563984.00    4151287.00        0.00148
564034.00    4151287.00        0.00212
         564084.00    4151287.00        0.00282
564134.00    4151287.00        0.00294
         564184.00    4151287.00        0.00206
564234.00    4151287.00        0.00159
         564284.00    4151287.00        0.00132
564334.00    4151287.00        0.00111
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564384.00	4151287.00	0.00093	564434.00	4151287.00	0.00079
564484.00	4151287.00	0.00067	564534.00	4151287.00	0.00057
564584.00	4151287.00	0.00049	564634.00	4151287.00	0.00043
564684.00	4151287.00	0.00037	563684.00	4151337.00	0.00025
563734.00	4151337.00	0.00030	563784.00	4151337.00	0.00037
563834.00	4151337.00	0.00046	563884.00	4151337.00	0.00060
563934.00	4151337.00	0.00078	563984.00	4151337.00	0.00100
564034.00	4151337.00	0.00120	564084.00	4151337.00	0.00127
564134.00	4151337.00	0.00113	564184.00	4151337.00	0.00092
564234.00	4151337.00	0.00074			

```
564284.00    4151337.00        0.00061
         564334.00    4151337.00        0.00054
564384.00    4151337.00        0.00050
         564434.00    4151337.00        0.00046
564484.00    4151337.00        0.00042
         564534.00    4151337.00        0.00038
564584.00    4151337.00        0.00034
         564634.00    4151337.00        0.00031
564684.00    4151337.00        0.00028
         563684.00    4151387.00        0.00022
563734.00    4151387.00        0.00026
         563784.00    4151387.00        0.00032
563834.00    4151387.00        0.00039
         563884.00    4151387.00        0.00048
563934.00    4151387.00        0.00058
         563984.00    4151387.00        0.00067
564034.00    4151387.00        0.00072
         564084.00    4151387.00        0.00069
564134.00    4151387.00        0.00061
         564184.00    4151387.00        0.00054
564234.00    4151387.00        0.00046
         564284.00    4151387.00        0.00038
564334.00    4151387.00        0.00033
         564384.00    4151387.00        0.00030
564434.00    4151387.00        0.00027
         564484.00    4151387.00        0.00026
564534.00    4151387.00        0.00025
         564584.00    4151387.00        0.00023
564634.00    4151387.00        0.00022
         564684.00    4151387.00        0.00021
563684.00    4151437.00        0.00020
         563734.00    4151437.00        0.00023
563784.00    4151437.00        0.00027
         563834.00    4151437.00        0.00033
563884.00    4151437.00        0.00038
         563934.00    4151437.00        0.00043
563984.00    4151437.00        0.00046
         564034.00    4151437.00        0.00046
564084.00    4151437.00        0.00043
         564134.00    4151437.00        0.00039
564184.00    4151437.00        0.00035
         564234.00    4151437.00        0.00031
564284.00    4151437.00        0.00027
         564334.00    4151437.00        0.00023
564384.00    4151437.00        0.00020
         564434.00    4151437.00        0.00019
564484.00    4151437.00        0.00017
         564534.00    4151437.00        0.00017
564584.00    4151437.00        0.00016
         564634.00    4151437.00        0.00015
564684.00    4151437.00        0.00015
         563684.00    4151487.00        0.00018
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563734.00    4151487.00        0.00020
         563784.00    4151487.00        0.00024
563834.00    4151487.00        0.00027
         563884.00    4151487.00        0.00030
563934.00    4151487.00        0.00032
         563984.00    4151487.00        0.00033
564034.00    4151487.00        0.00031
         564084.00    4151487.00        0.00029
564134.00    4151487.00        0.00027
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564184.00	4151487.00	0.00025	564234.00	4151487.00	0.00023
564284.00	4151487.00	0.00020	564334.00	4151487.00	0.00018
564384.00	4151487.00	0.00016	564434.00	4151487.00	0.00014
564484.00	4151487.00	0.00013	564534.00	4151487.00	0.00012
564584.00	4151487.00	0.00012	564634.00	4151487.00	0.00011
564684.00	4151487.00	0.00011	563684.00	4151537.00	0.00016
563734.00	4151537.00	0.00018	563784.00	4151537.00	0.00020
563834.00	4151537.00	0.00022	563884.00	4151537.00	0.00024
563934.00	4151537.00	0.00024	563984.00	4151537.00	0.00024
564034.00	4151537.00	0.00023			

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564084.00    4151537.00        0.00021
         564134.00    4151537.00        0.00020
564184.00    4151537.00        0.00019
         564234.00    4151537.00        0.00018
564284.00    4151537.00        0.00016
         564334.00    4151537.00        0.00014
564384.00    4151537.00        0.00013
         564434.00    4151537.00        0.00011
564484.00    4151537.00        0.00010
         564534.00    4151537.00        0.00009
564584.00    4151537.00        0.00009
         564634.00    4151537.00        0.00008
564684.00    4151537.00        0.00008
         563684.00    4151587.00        0.00014
563734.00    4151587.00        0.00016
         563784.00    4151587.00        0.00017
563834.00    4151587.00        0.00018
         563884.00    4151587.00        0.00019
563934.00    4151587.00        0.00019
         563984.00    4151587.00        0.00018
564034.00    4151587.00        0.00017
         564084.00    4151587.00        0.00016
564134.00    4151587.00        0.00016
         564184.00    4151587.00        0.00015
564234.00    4151587.00        0.00014
         564284.00    4151587.00        0.00013
564334.00    4151587.00        0.00012
         564384.00    4151587.00        0.00011
564434.00    4151587.00        0.00009
         564484.00    4151587.00        0.00009
564534.00    4151587.00        0.00008
         564584.00    4151587.00        0.00007
564634.00    4151587.00        0.00007
         564684.00    4151587.00        0.00006
563684.00    4151637.00        0.00013
         563734.00    4151637.00        0.00014
563784.00    4151637.00        0.00015
         563834.00    4151637.00        0.00015
563884.00    4151637.00        0.00015
         563934.00    4151637.00        0.00015
563984.00    4151637.00        0.00014
         564034.00    4151637.00        0.00014
564084.00    4151637.00        0.00013
         564134.00    4151637.00        0.00013
564184.00    4151637.00        0.00012
         564234.00    4151637.00        0.00011
564284.00    4151637.00        0.00011
         564334.00    4151637.00        0.00010
564384.00    4151637.00        0.00009
         564434.00    4151637.00        0.00008
564484.00    4151637.00        0.00007
         564534.00    4151637.00        0.00007
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564584.00    4151637.00        0.00006
         564634.00    4151637.00        0.00006
564684.00    4151637.00        0.00005
         563684.00    4151687.00        0.00011
563734.00    4151687.00        0.00012
         563784.00    4151687.00        0.00012
563834.00    4151687.00        0.00012
         563884.00    4151687.00        0.00012
563934.00    4151687.00        0.00012
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
563984.00	4151687.00	0.00011	564034.00	4151687.00	0.00011
564084.00	4151687.00	0.00011	564134.00	4151687.00	0.00010
564184.00	4151687.00	0.00010	564234.00	4151687.00	0.00009
564284.00	4151687.00	0.00009	564334.00	4151687.00	0.00008
564384.00	4151687.00	0.00008	564434.00	4151687.00	0.00007
564484.00	4151687.00	0.00006	564534.00	4151687.00	0.00006
564584.00	4151687.00	0.00005	564634.00	4151687.00	0.00005
564684.00	4151687.00	0.00005	564024.00	4150977.00	0.00177
564034.00	4150977.00	0.00187	564044.00	4150977.00	0.00198
564054.00	4150977.00	0.00210			

```
564064.00    4150977.00        0.00223
         564074.00    4150977.00        0.00238
564084.00    4150977.00        0.00254
         564094.00    4150977.00        0.00273
564104.00    4150977.00        0.00293
         564114.00    4150977.00        0.00316
564124.00    4150977.00        0.00340
         564134.00    4150977.00        0.00366
564144.00    4150977.00        0.00392
         564024.00    4150987.00        0.00192
564034.00    4150987.00        0.00204
         564044.00    4150987.00        0.00217
564054.00    4150987.00        0.00231
         564064.00    4150987.00        0.00246
564074.00    4150987.00        0.00263
         564084.00    4150987.00        0.00282
564094.00    4150987.00        0.00304
         564104.00    4150987.00        0.00328
564114.00    4150987.00        0.00354
         564124.00    4150987.00        0.00382
564134.00    4150987.00        0.00412
         564144.00    4150987.00        0.00442
564024.00    4150997.00        0.00210
         564034.00    4150997.00        0.00224
564044.00    4150997.00        0.00239
         564054.00    4150997.00        0.00255
564064.00    4150997.00        0.00273
         564074.00    4150997.00        0.00293
564084.00    4150997.00        0.00315
         564094.00    4150997.00        0.00340
564104.00    4150997.00        0.00368
         564114.00    4150997.00        0.00399
564124.00    4150997.00        0.00433
         564134.00    4150997.00        0.00468
564144.00    4150997.00        0.00503
         564024.00    4151007.00        0.00229
564034.00    4151007.00        0.00245
         564044.00    4151007.00        0.00263
564054.00    4151007.00        0.00283
         564064.00    4151007.00        0.00304
564074.00    4151007.00        0.00328
         564084.00    4151007.00        0.00354
564094.00    4151007.00        0.00384
         564104.00    4151007.00        0.00417
564114.00    4151007.00        0.00455
         564124.00    4151007.00        0.00495
564134.00    4151007.00        0.00537
         564144.00    4151007.00        0.00578
564024.00    4151017.00        0.00250
         564034.00    4151017.00        0.00270
564044.00    4151017.00        0.00291
         564054.00    4151017.00        0.00315
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564064.00    4151017.00        0.00341
         564074.00    4151017.00        0.00369
564084.00    4151017.00        0.00401
         564094.00    4151017.00        0.00437
564104.00    4151017.00        0.00478
         564114.00    4151017.00        0.00522
564124.00    4151017.00        0.00571
         564134.00    4151017.00        0.00622
564144.00    4151017.00        0.00672
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ALL ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 , A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 ,
A0000028 , A0000029 , A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 ,
A0000036 ,

*** 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
564024.00	4151027.00	0.00274	564034.00	4151027.00	0.00298
564044.00	4151027.00	0.00324	564054.00	4151027.00	0.00352
564064.00	4151027.00	0.00383	564074.00	4151027.00	0.00418
564084.00	4151027.00	0.00458	564094.00	4151027.00	0.00502
564104.00	4151027.00	0.00552	564114.00	4151027.00	0.00607
564124.00	4151027.00	0.00667	564134.00	4151027.00	0.00729
564144.00	4151027.00	0.00790	564024.00	4151037.00	0.00300
564034.00	4151037.00	0.00329	564044.00	4151037.00	0.00360
564054.00	4151037.00	0.00395	564064.00	4151037.00	0.00434
564074.00	4151037.00	0.00477			

564084.00 4151037.00 0.00527
564094.00 4151037.00 0.00583
564104.00 4151037.00 0.00645
564114.00 4151037.00 0.00715
564124.00 4151037.00 0.00790
564134.00 4151037.00 0.00867
564144.00 4151037.00 0.00943
564024.00 4151047.00 0.00329
564034.00 4151047.00 0.00363
564044.00 4151047.00 0.00401
564054.00 4151047.00 0.00444
564064.00 4151047.00 0.00492
564074.00 4151047.00 0.00548
564084.00 4151047.00 0.00611
564094.00 4151047.00 0.00683
564104.00 4151047.00 0.00764
564114.00 4151047.00 0.00854
564124.00 4151047.00 0.00951
564134.00 4151047.00 0.01050
564144.00 4151047.00 0.01145
564024.00 4151057.00 0.00359
564034.00 4151057.00 0.00400
564044.00 4151057.00 0.00447
564054.00 4151057.00 0.00500
564064.00 4151057.00 0.00561
564074.00 4151057.00 0.00632
564084.00 4151057.00 0.00714
564094.00 4151057.00 0.00810
564104.00 4151057.00 0.00918
564114.00 4151057.00 0.01039
564124.00 4151057.00 0.01167
564134.00 4151057.00 0.01297
564144.00 4151057.00 0.01417
564024.00 4151067.00 0.00391
564034.00 4151067.00 0.00441
564044.00 4151067.00 0.00498
564054.00 4151067.00 0.00564
564064.00 4151067.00 0.00641
564074.00 4151067.00 0.00732
564084.00 4151067.00 0.00841
564094.00 4151067.00 0.00970
564104.00 4151067.00 0.01119
564114.00 4151067.00 0.01285
564124.00 4151067.00 0.01462
564134.00 4151067.00 0.01636
564144.00 4151067.00 0.01790
564107.97 4151217.98 0.01637
564126.88 4151212.46 0.02334
564146.59 4151252.73 0.00809
564179.25 4151251.60 0.00633
564210.51 4151177.54 0.02779
564208.82 4151145.16 0.03454

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564183.19    4151110.24        0.03838
         564162.92    4151096.45        0.03506
564148.56    4151092.79        0.03267
         564126.03    4151098.98        0.03054
564088.27    4151128.81        0.02237
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564114.01	4151261.20	0.00585	564135.61	4151266.04	0.00539
564119.54	4151293.69	0.00261	564130.77	4151312.01	0.00173
564163.09	4151305.62	0.00165	564177.44	4151299.74	0.00167
564196.97	4151291.79	0.00171	564210.10	4151280.21	0.00206
564220.30	4151264.14	0.00309	564227.90	4151247.38	0.00481
564238.45	4151230.27	0.00653	564240.80	4151212.56	0.00913
564248.22	4151198.20	0.01028	564256.35	4151175.24	0.01169
564269.75	4151162.08	0.01018	564286.49	4151151.08	0.00822
564308.10	4151135.11	0.00630	564329.77	4151126.39	0.00491
564243.38	4151128.82	0.01723	564191.23	4151093.66	0.02995
564176.16	4151074.52	0.02294	564232.45	4151110.30	0.01920
564235.20	4151074.64	0.01276	564247.20	4151064.67	0.00995
564261.03	4151054.91	0.00784	564279.33	4151048.00	0.00619
564092.05	4151261.51	0.00487			

564077.80   4151271.65   0.00358
         564075.89   4151298.68   0.00225
564092.20   4151320.13   0.00163
         564079.00   4151329.27   0.00142
564064.02   4151340.14   0.00122
         564053.40   4151343.64   0.00116
564038.54   4151353.00   0.00102
         564026.30   4151362.62   0.00091
564014.58   4151371.30   0.00082
         564004.15   4151384.96   0.00071
563986.52   4151397.01   0.00063
         563975.05   4151409.36   0.00056
563812.99   4151377.74   0.00037
         563786.51   4151378.74   0.00033
563747.29   4151364.63   0.00029
         563732.55   4151348.64   0.00029
564252.63   4151299.36   0.00117
         564270.08   4151278.80   0.00164
564280.78   4151263.04   0.00215
         564299.64   4151254.31   0.00225
564320.76   4151241.36   0.00241
         564338.49   4151199.69   0.00338
564223.05   4151086.47   0.01736
         564223.05   4151100.23   0.02060
564207.53   4151007.19   0.00683
         564220.50   4150997.85   0.00592
564231.22   4150986.27   0.00507
         564270.64   4151004.25   0.00483
564293.29   4151001.31   0.00405
         564316.46   4150997.68   0.00338
564190.93   4150987.82   0.00542
         564158.55   4151084.80   0.02907
563684.00   4150687.00   0.00017
         563734.00   4150687.00   0.00019
563784.00   4150687.00   0.00021
         563834.00   4150687.00   0.00023
563884.00   4150687.00   0.00026
         563934.00   4150687.00   0.00029
563984.00   4150687.00   0.00032
         564034.00   4150687.00   0.00036
564084.00   4150687.00   0.00043
         564134.00   4150687.00   0.00051
564184.00   4150687.00   0.00061
         564234.00   4150687.00   0.00069
564284.00   4150687.00   0.00074
         564334.00   4150687.00   0.00074
564384.00   4150687.00   0.00070
         564434.00   4150687.00   0.00064
564484.00   4150687.00   0.00057
         564534.00   4150687.00   0.00051
564584.00   4150687.00   0.00046
         564634.00   4150687.00   0.00042

564684.00 4150687.00 0.00038

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
563684.00	4150737.00	0.00019	563734.00	4150737.00	0.00022
563784.00	4150737.00	0.00024	563834.00	4150737.00	0.00027
563884.00	4150737.00	0.00031	563934.00	4150737.00	0.00034
563984.00	4150737.00	0.00039	564034.00	4150737.00	0.00044
564084.00	4150737.00	0.00053	564134.00	4150737.00	0.00064
564184.00	4150737.00	0.00077	564234.00	4150737.00	0.00088
564284.00	4150737.00	0.00093	564334.00	4150737.00	0.00090
564384.00	4150737.00	0.00083	564434.00	4150737.00	0.00074
564484.00	4150737.00	0.00065	564534.00	4150737.00	0.00058
564584.00	4150737.00	0.00051	564634.00	4150737.00	0.00046
564684.00	4150737.00	0.00041	563684.00	4150787.00	0.00021
563734.00	4150787.00	0.00025	563784.00	4150787.00	0.00028
563834.00	4150787.00	0.00032	563884.00	4150787.00	0.00037
563934.00	4150787.00	0.00042			

```
563984.00    4150787.00        0.00048
         564034.00    4150787.00        0.00056
564084.00    4150787.00        0.00067
         564134.00    4150787.00        0.00083
564184.00    4150787.00        0.00101
         564234.00    4150787.00        0.00115
564284.00    4150787.00        0.00118
         564334.00    4150787.00        0.00111
564384.00    4150787.00        0.00099
         564434.00    4150787.00        0.00086
564484.00    4150787.00        0.00075
         564534.00    4150787.00        0.00065
564584.00    4150787.00        0.00057
         564634.00    4150787.00        0.00051
564684.00    4150787.00        0.00045
         563684.00    4150837.00        0.00024
563734.00    4150837.00        0.00028
         563784.00    4150837.00        0.00033
563834.00    4150837.00        0.00039
         563884.00    4150837.00        0.00045
563934.00    4150837.00        0.00052
         563984.00    4150837.00        0.00060
564034.00    4150837.00        0.00071
         564084.00    4150837.00        0.00088
564134.00    4150837.00        0.00112
         564184.00    4150837.00        0.00138
564234.00    4150837.00        0.00155
         564284.00    4150837.00        0.00154
564334.00    4150837.00        0.00139
         564384.00    4150837.00        0.00119
564434.00    4150837.00        0.00101
         564484.00    4150837.00        0.00086
564534.00    4150837.00        0.00074
         564584.00    4150837.00        0.00064
564634.00    4150837.00        0.00055
         564684.00    4150837.00        0.00048
563684.00    4150887.00        0.00026
         563734.00    4150887.00        0.00031
563784.00    4150887.00        0.00038
         563834.00    4150887.00        0.00046
563884.00    4150887.00        0.00055
         563934.00    4150887.00        0.00066
563984.00    4150887.00        0.00079
         564034.00    4150887.00        0.00096
564084.00    4150887.00        0.00121
         564134.00    4150887.00        0.00158
564184.00    4150887.00        0.00199
         564234.00    4150887.00        0.00218
564284.00    4150887.00        0.00205
         564334.00    4150887.00        0.00176
564384.00    4150887.00        0.00145
         564434.00    4150887.00        0.00119
```

564484.00 4150887.00 0.00099

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564534.00	4150887.00	0.00083	564584.00	4150887.00	0.00070
564634.00	4150887.00	0.00060	564684.00	4150887.00	0.00052
563684.00	4150937.00	0.00028	563734.00	4150937.00	0.00034
563784.00	4150937.00	0.00043	563834.00	4150937.00	0.00054
563884.00	4150937.00	0.00068	563934.00	4150937.00	0.00086
563984.00	4150937.00	0.00108	564034.00	4150937.00	0.00135
564084.00	4150937.00	0.00176	564134.00	4150937.00	0.00241
564184.00	4150937.00	0.00308	564234.00	4150937.00	0.00322
564284.00	4150937.00	0.00281	564334.00	4150937.00	0.00224
564384.00	4150937.00	0.00176	564434.00	4150937.00	0.00139
564484.00	4150937.00	0.00112	564534.00	4150937.00	0.00092
564584.00	4150937.00	0.00077	564634.00	4150937.00	0.00065
564684.00	4150937.00	0.00055	563684.00	4150987.00	0.00030
563734.00	4150987.00	0.00037			

```
563784.00    4150987.00        0.00047
         563834.00    4150987.00        0.00061
563884.00    4150987.00        0.00082
         563934.00    4150987.00        0.00111
563984.00    4150987.00        0.00151
         564034.00    4150987.00        0.00204
564084.00    4150987.00        0.00282
         564134.00    4150987.00        0.00411
564184.00    4150987.00        0.00530
         564234.00    4150987.00        0.00506
564284.00    4150987.00        0.00392
         564334.00    4150987.00        0.00286
564384.00    4150987.00        0.00212
         564434.00    4150987.00        0.00161
564484.00    4150987.00        0.00126
         564534.00    4150987.00        0.00101
564584.00    4150987.00        0.00082
         564634.00    4150987.00        0.00068
564684.00    4150987.00        0.00058
         563684.00    4151037.00        0.00032
563734.00    4151037.00        0.00040
         563784.00    4151037.00        0.00051
563834.00    4151037.00        0.00069
         563884.00    4151037.00        0.00096
563934.00    4151037.00        0.00139
         563984.00    4151037.00        0.00211
564034.00    4151037.00        0.00328
         564084.00    4151037.00        0.00526
564134.00    4151037.00        0.00865
         564184.00    4151037.00        0.01086
564234.00    4151037.00        0.00850
         564284.00    4151037.00        0.00550
564334.00    4151037.00        0.00361
         564384.00    4151037.00        0.00251
564434.00    4151037.00        0.00183
         564484.00    4151037.00        0.00139
564534.00    4151037.00        0.00109
         564584.00    4151037.00        0.00087
564634.00    4151037.00        0.00072
         564684.00    4151037.00        0.00060
563684.00    4151087.00        0.00033
         563734.00    4151087.00        0.00042
563784.00    4151087.00        0.00055
         563834.00    4151087.00        0.00074
563884.00    4151087.00        0.00107
         563934.00    4151087.00        0.00164
563984.00    4151087.00        0.00276
         564034.00    4151087.00        0.00528
564084.00    4151087.00        0.01179
         564134.00    4151087.00        0.02661
564184.00    4151087.00        0.02831
         564234.00    4151087.00        0.01486
```

564284.00 4151087.00 0.00749

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564334.00	4151087.00	0.00437	564384.00	4151087.00	0.00285
564434.00	4151087.00	0.00200	564484.00	4151087.00	0.00148
564534.00	4151087.00	0.00114	564584.00	4151087.00	0.00090
564634.00	4151087.00	0.00073	564684.00	4151087.00	0.00060
563684.00	4151137.00	0.00034	563734.00	4151137.00	0.00043
563784.00	4151137.00	0.00057	563834.00	4151137.00	0.00077
563884.00	4151137.00	0.00112	563934.00	4151137.00	0.00176
563984.00	4151137.00	0.00314	564034.00	4151137.00	0.00698
564084.00	4151137.00	0.02178	564234.00	4151137.00	0.02138
564284.00	4151137.00	0.00869	564334.00	4151137.00	0.00469
564384.00	4151137.00	0.00294	564434.00	4151137.00	0.00202
564484.00	4151137.00	0.00147	564534.00	4151137.00	0.00112
564584.00	4151137.00	0.00088	564634.00	4151137.00	0.00071
564684.00	4151137.00	0.00059			

```
563684.00    4151187.00        0.00033
         563734.00    4151187.00        0.00042
563784.00    4151187.00        0.00055
         563834.00    4151187.00        0.00074
563884.00    4151187.00        0.00107
         563934.00    4151187.00        0.00165
563984.00    4151187.00        0.00288
         564034.00    4151187.00        0.00611
564084.00    4151187.00        0.01838
         564234.00    4151187.00        0.01573
564284.00    4151187.00        0.00687
         564334.00    4151187.00        0.00389
564384.00    4151187.00        0.00252
         564434.00    4151187.00        0.00176
564484.00    4151187.00        0.00131
         564534.00    4151187.00        0.00101
564584.00    4151187.00        0.00080
         564634.00    4151187.00        0.00065
564684.00    4151187.00        0.00054
         563684.00    4151237.00        0.00031
563734.00    4151237.00        0.00039
         563784.00    4151237.00        0.00050
563834.00    4151237.00        0.00066
         563884.00    4151237.00        0.00092
563934.00    4151237.00        0.00135
         563984.00    4151237.00        0.00216
564034.00    4151237.00        0.00382
         564084.00    4151237.00        0.00744
564134.00    4151237.00        0.01417
         564234.00    4151237.00        0.00590
564284.00    4151237.00        0.00345
         564334.00    4151237.00        0.00233
564384.00    4151237.00        0.00169
         564434.00    4151237.00        0.00128
564484.00    4151237.00        0.00100
         564534.00    4151237.00        0.00080
564584.00    4151237.00        0.00066
         564634.00    4151237.00        0.00055
564684.00    4151237.00        0.00046
         563684.00    4151287.00        0.00028
563734.00    4151287.00        0.00034
         563784.00    4151287.00        0.00043
563834.00    4151287.00        0.00056
         563884.00    4151287.00        0.00074
563934.00    4151287.00        0.00103
         563984.00    4151287.00        0.00148
564034.00    4151287.00        0.00212
         564084.00    4151287.00        0.00282
564134.00    4151287.00        0.00294
         564184.00    4151287.00        0.00206
564234.00    4151287.00        0.00159
         564284.00    4151287.00        0.00132
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564334.00 4151287.00 0.00111

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564384.00	4151287.00	0.00093	564434.00	4151287.00	0.00079
564484.00	4151287.00	0.00067	564534.00	4151287.00	0.00057
564584.00	4151287.00	0.00049	564634.00	4151287.00	0.00043
564684.00	4151287.00	0.00037	563684.00	4151337.00	0.00025
563734.00	4151337.00	0.00030	563784.00	4151337.00	0.00037
563834.00	4151337.00	0.00046	563884.00	4151337.00	0.00060
563934.00	4151337.00	0.00078	563984.00	4151337.00	0.00100
564034.00	4151337.00	0.00120	564084.00	4151337.00	0.00127
564134.00	4151337.00	0.00113	564184.00	4151337.00	0.00092
564234.00	4151337.00	0.00074	564284.00	4151337.00	0.00061
564334.00	4151337.00	0.00054	564384.00	4151337.00	0.00049
564434.00	4151337.00	0.00045	564484.00	4151337.00	0.00042
564534.00	4151337.00	0.00038	564584.00	4151337.00	0.00034
564634.00	4151337.00	0.00031			

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564684.00    4151337.00        0.00028
         563684.00    4151387.00        0.00022
563734.00    4151387.00        0.00026
         563784.00    4151387.00        0.00032
563834.00    4151387.00        0.00039
         563884.00    4151387.00        0.00048
563934.00    4151387.00        0.00058
         563984.00    4151387.00        0.00067
564034.00    4151387.00        0.00072
         564084.00    4151387.00        0.00069
564134.00    4151387.00        0.00061
         564184.00    4151387.00        0.00053
564234.00    4151387.00        0.00045
         564284.00    4151387.00        0.00038
564334.00    4151387.00        0.00033
         564384.00    4151387.00        0.00029
564434.00    4151387.00        0.00027
         564484.00    4151387.00        0.00026
564534.00    4151387.00        0.00025
         564584.00    4151387.00        0.00023
564634.00    4151387.00        0.00022
         564684.00    4151387.00        0.00021
563684.00    4151437.00        0.00020
         563734.00    4151437.00        0.00023
563784.00    4151437.00        0.00027
         563834.00    4151437.00        0.00033
563884.00    4151437.00        0.00038
         563934.00    4151437.00        0.00043
563984.00    4151437.00        0.00046
         564034.00    4151437.00        0.00046
564084.00    4151437.00        0.00043
         564134.00    4151437.00        0.00039
564184.00    4151437.00        0.00035
         564234.00    4151437.00        0.00031
564284.00    4151437.00        0.00027
         564334.00    4151437.00        0.00023
564384.00    4151437.00        0.00020
         564434.00    4151437.00        0.00019
564484.00    4151437.00        0.00017
         564534.00    4151437.00        0.00017
564584.00    4151437.00        0.00016
         564634.00    4151437.00        0.00015
564684.00    4151437.00        0.00015
         563684.00    4151487.00        0.00018
563734.00    4151487.00        0.00020
         563784.00    4151487.00        0.00024
563834.00    4151487.00        0.00027
         563884.00    4151487.00        0.00030
563934.00    4151487.00        0.00032
         563984.00    4151487.00        0.00033
564034.00    4151487.00        0.00031
         564084.00    4151487.00        0.00029
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564134.00 4151487.00 0.00027

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564184.00	4151487.00	0.00025	564234.00	4151487.00	0.00023
564284.00	4151487.00	0.00020	564334.00	4151487.00	0.00018
564384.00	4151487.00	0.00016	564434.00	4151487.00	0.00014
564484.00	4151487.00	0.00013	564534.00	4151487.00	0.00012
564584.00	4151487.00	0.00012	564634.00	4151487.00	0.00011
564684.00	4151487.00	0.00011	563684.00	4151537.00	0.00016
563734.00	4151537.00	0.00018	563784.00	4151537.00	0.00020
563834.00	4151537.00	0.00022	563884.00	4151537.00	0.00024
563934.00	4151537.00	0.00024	563984.00	4151537.00	0.00024
564034.00	4151537.00	0.00023	564084.00	4151537.00	0.00021
564134.00	4151537.00	0.00020	564184.00	4151537.00	0.00019
564234.00	4151537.00	0.00018	564284.00	4151537.00	0.00016
564334.00	4151537.00	0.00014	564384.00	4151537.00	0.00013
564434.00	4151537.00	0.00011			

564484.00 4151537.00 0.00010
564534.00 4151537.00 0.00009
564584.00 4151537.00 0.00009
564634.00 4151537.00 0.00008
564684.00 4151537.00 0.00008
563684.00 4151587.00 0.00014
563734.00 4151587.00 0.00016
563784.00 4151587.00 0.00017
563834.00 4151587.00 0.00018
563884.00 4151587.00 0.00019
563934.00 4151587.00 0.00019
563984.00 4151587.00 0.00018
564034.00 4151587.00 0.00017
564084.00 4151587.00 0.00016
564134.00 4151587.00 0.00016
564184.00 4151587.00 0.00015
564234.00 4151587.00 0.00014
564284.00 4151587.00 0.00013
564334.00 4151587.00 0.00012
564384.00 4151587.00 0.00011
564434.00 4151587.00 0.00009
564484.00 4151587.00 0.00009
564534.00 4151587.00 0.00008
564584.00 4151587.00 0.00007
564634.00 4151587.00 0.00007
564684.00 4151587.00 0.00006
563684.00 4151637.00 0.00013
563734.00 4151637.00 0.00014
563784.00 4151637.00 0.00015
563834.00 4151637.00 0.00015
563884.00 4151637.00 0.00015
563934.00 4151637.00 0.00015
563984.00 4151637.00 0.00014
564034.00 4151637.00 0.00014
564084.00 4151637.00 0.00013
564134.00 4151637.00 0.00013
564184.00 4151637.00 0.00012
564234.00 4151637.00 0.00011
564284.00 4151637.00 0.00011
564334.00 4151637.00 0.00010
564384.00 4151637.00 0.00009
564434.00 4151637.00 0.00008
564484.00 4151637.00 0.00007
564534.00 4151637.00 0.00007
564584.00 4151637.00 0.00006
564634.00 4151637.00 0.00006
564684.00 4151637.00 0.00005
563684.00 4151687.00 0.00011
563734.00 4151687.00 0.00012
563784.00 4151687.00 0.00012
563834.00 4151687.00 0.00012
563884.00 4151687.00 0.00012

563934.00 4151687.00 0.00012

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
563984.00	4151687.00	0.00011	564034.00	4151687.00	0.00011
564084.00	4151687.00	0.00011	564134.00	4151687.00	0.00010
564184.00	4151687.00	0.00010	564234.00	4151687.00	0.00009
564284.00	4151687.00	0.00009	564334.00	4151687.00	0.00008
564384.00	4151687.00	0.00008	564434.00	4151687.00	0.00007
564484.00	4151687.00	0.00006	564534.00	4151687.00	0.00006
564584.00	4151687.00	0.00005	564634.00	4151687.00	0.00005
564684.00	4151687.00	0.00005	564024.00	4150977.00	0.00176
564034.00	4150977.00	0.00187	564044.00	4150977.00	0.00198
564054.00	4150977.00	0.00210	564064.00	4150977.00	0.00223
564074.00	4150977.00	0.00237	564084.00	4150977.00	0.00254
564094.00	4150977.00	0.00272	564104.00	4150977.00	0.00293
564114.00	4150977.00	0.00315	564124.00	4150977.00	0.00339
564134.00	4150977.00	0.00365			

```
564144.00    4150977.00        0.00390
         564024.00    4150987.00        0.00192
564034.00    4150987.00        0.00204
         564044.00    4150987.00        0.00217
564054.00    4150987.00        0.00230
         564064.00    4150987.00        0.00246
564074.00    4150987.00        0.00263
         564084.00    4150987.00        0.00282
564094.00    4150987.00        0.00303
         564104.00    4150987.00        0.00327
564114.00    4150987.00        0.00353
         564124.00    4150987.00        0.00381
564134.00    4150987.00        0.00411
         564144.00    4150987.00        0.00441
564024.00    4150997.00        0.00209
         564034.00    4150997.00        0.00223
564044.00    4150997.00        0.00238
         564054.00    4150997.00        0.00255
564064.00    4150997.00        0.00272
         564074.00    4150997.00        0.00292
564084.00    4150997.00        0.00315
         564094.00    4150997.00        0.00340
564104.00    4150997.00        0.00368
         564114.00    4150997.00        0.00398
564124.00    4150997.00        0.00432
         564134.00    4150997.00        0.00467
564144.00    4150997.00        0.00502
         564024.00    4151007.00        0.00229
564034.00    4151007.00        0.00245
         564044.00    4151007.00        0.00263
564054.00    4151007.00        0.00282
         564064.00    4151007.00        0.00304
564074.00    4151007.00        0.00327
         564084.00    4151007.00        0.00354
564094.00    4151007.00        0.00383
         564104.00    4151007.00        0.00417
564114.00    4151007.00        0.00454
         564124.00    4151007.00        0.00493
564134.00    4151007.00        0.00535
         564144.00    4151007.00        0.00577
564024.00    4151017.00        0.00250
         564034.00    4151017.00        0.00270
564044.00    4151017.00        0.00291
         564054.00    4151017.00        0.00314
564064.00    4151017.00        0.00340
         564074.00    4151017.00        0.00368
564084.00    4151017.00        0.00400
         564094.00    4151017.00        0.00436
564104.00    4151017.00        0.00477
         564114.00    4151017.00        0.00521
564124.00    4151017.00        0.00569
         564134.00    4151017.00        0.00620
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564144.00 4151017.00 0.00670

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_ON ***
INCLUDING SOURCE(S):
PAREA01 , PAREA02 ,

*** 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
564024.00	4151027.00	0.00274	564034.00	4151027.00	0.00297
564044.00	4151027.00	0.00323	564054.00	4151027.00	0.00351
564064.00	4151027.00	0.00383	564074.00	4151027.00	0.00418
564084.00	4151027.00	0.00457	564094.00	4151027.00	0.00501
564104.00	4151027.00	0.00551	564114.00	4151027.00	0.00606
564124.00	4151027.00	0.00665	564134.00	4151027.00	0.00727
564144.00	4151027.00	0.00787	564024.00	4151037.00	0.00300
564034.00	4151037.00	0.00328	564044.00	4151037.00	0.00360
564054.00	4151037.00	0.00394	564064.00	4151037.00	0.00433
564074.00	4151037.00	0.00477	564084.00	4151037.00	0.00526
564094.00	4151037.00	0.00582	564104.00	4151037.00	0.00644
564114.00	4151037.00	0.00713	564124.00	4151037.00	0.00788
564134.00	4151037.00	0.00865	564144.00	4151037.00	0.00940
564024.00	4151047.00	0.00328			

564034.00 4151047.00 0.00362
564044.00 4151047.00 0.00400
564054.00 4151047.00 0.00443
564064.00 4151047.00 0.00492
564074.00 4151047.00 0.00547
564084.00 4151047.00 0.00610
564094.00 4151047.00 0.00682
564104.00 4151047.00 0.00763
564114.00 4151047.00 0.00853
564124.00 4151047.00 0.00949
564134.00 4151047.00 0.01047
564144.00 4151047.00 0.01141
564024.00 4151057.00 0.00359
564034.00 4151057.00 0.00400
564044.00 4151057.00 0.00446
564054.00 4151057.00 0.00499
564064.00 4151057.00 0.00561
564074.00 4151057.00 0.00631
564084.00 4151057.00 0.00713
564094.00 4151057.00 0.00809
564104.00 4151057.00 0.00917
564114.00 4151057.00 0.01037
564124.00 4151057.00 0.01164
564134.00 4151057.00 0.01293
564144.00 4151057.00 0.01413
564024.00 4151067.00 0.00391
564034.00 4151067.00 0.00440
564044.00 4151067.00 0.00497
564054.00 4151067.00 0.00563
564064.00 4151067.00 0.00640
564074.00 4151067.00 0.00732
564084.00 4151067.00 0.00840
564094.00 4151067.00 0.00968
564104.00 4151067.00 0.01117
564114.00 4151067.00 0.01283
564124.00 4151067.00 0.01458
564134.00 4151067.00 0.01632
564144.00 4151067.00 0.01786
564107.97 4151217.98 0.01636
564126.88 4151212.46 0.02334
564146.59 4151252.73 0.00809
564179.25 4151251.60 0.00633
564210.51 4151177.54 0.02779
564208.82 4151145.16 0.03454
564183.19 4151110.24 0.03837
564162.92 4151096.45 0.03504
564148.56 4151092.79 0.03264
564126.03 4151098.98 0.03051
564088.27 4151128.81 0.02236

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564114.01	4151261.20	0.00000	564135.61	4151266.04	0.00000
564119.54	4151293.69	0.00000	564130.77	4151312.01	0.00000
564163.09	4151305.62	0.00000	564177.44	4151299.74	0.00000
564196.97	4151291.79	0.00000	564210.10	4151280.21	0.00000
564220.30	4151264.14	0.00000	564227.90	4151247.38	0.00000
564238.45	4151230.27	0.00000	564240.80	4151212.56	0.00000
564248.22	4151198.20	0.00000	564256.35	4151175.24	0.00000
564269.75	4151162.08	0.00000	564286.49	4151151.08	0.00000
564308.10	4151135.11	0.00000	564329.77	4151126.39	0.00000
564243.38	4151128.82	0.00000	564191.23	4151093.66	0.00001
564176.16	4151074.52	0.00002			

```
564232.45    4151110.30        0.00000
         564235.20    4151074.64        0.00001
564247.20    4151064.67        0.00001
         564261.03    4151054.91        0.00001
564279.33    4151048.00        0.00001
         564092.05    4151261.51        0.00000
564077.80    4151271.65        0.00000
         564075.89    4151298.68        0.00000
564092.20    4151320.13        0.00000
         564079.00    4151329.27        0.00000
564064.02    4151340.14        0.00000
         564053.40    4151343.64        0.00000
564038.54    4151353.00        0.00000
         564026.30    4151362.62        0.00000
564014.58    4151371.30        0.00000
         564004.15    4151384.96        0.00000
563986.52    4151397.01        0.00000
         563975.05    4151409.36        0.00000
563812.99    4151377.74        0.00000
         563786.51    4151378.74        0.00000
563747.29    4151364.63        0.00000
         563732.55    4151348.64        0.00000
564252.63    4151299.36        0.00000
         564270.08    4151278.80        0.00000
564280.78    4151263.04        0.00000
         564299.64    4151254.31        0.00000
564320.76    4151241.36        0.00000
         564338.49    4151199.69        0.00000
564223.05    4151086.47        0.00001
         564223.05    4151100.23        0.00001
564207.53    4151007.19        0.00005
         564220.50    4150997.85        0.00005
564231.22    4150986.27        0.00005
         564270.64    4151004.25        0.00002
564293.29    4151001.31        0.00002
         564316.46    4150997.68        0.00001
564190.93    4150987.82        0.00003
         564158.55    4151084.80        0.00003
563684.00    4150687.00        0.00000
         563734.00    4150687.00        0.00000
563784.00    4150687.00        0.00000
         563834.00    4150687.00        0.00000
563884.00    4150687.00        0.00000
         563934.00    4150687.00        0.00000
563984.00    4150687.00        0.00000
         564034.00    4150687.00        0.00000
564084.00    4150687.00        0.00000
         564134.00    4150687.00        0.00000
564184.00    4150687.00        0.00000
         564234.00    4150687.00        0.00000
564284.00    4150687.00        0.00000
         564334.00    4150687.00        0.00000
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```
564384.00    4150687.00        0.00001
         564434.00    4150687.00        0.00001
564484.00    4150687.00        0.00000
         564534.00    4150687.00        0.00000
564584.00    4150687.00        0.00000
         564634.00    4150687.00        0.00000
564684.00    4150687.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF *** INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
563684.00	4150737.00	0.00000	563734.00	4150737.00	0.00000
563784.00	4150737.00	0.00000	563834.00	4150737.00	0.00000
563884.00	4150737.00	0.00000	563934.00	4150737.00	0.00000
563984.00	4150737.00	0.00000	564034.00	4150737.00	0.00000
564084.00	4150737.00	0.00000	564134.00	4150737.00	0.00000
564184.00	4150737.00	0.00000	564234.00	4150737.00	0.00000
564284.00	4150737.00	0.00001	564334.00	4150737.00	0.00001
564384.00	4150737.00	0.00001	564434.00	4150737.00	0.00001
564484.00	4150737.00	0.00001	564534.00	4150737.00	0.00001
564584.00	4150737.00	0.00000	564634.00	4150737.00	0.00000
564684.00	4150737.00	0.00000			

```
563684.00    4150787.00        0.00000
         563734.00    4150787.00        0.00000
563784.00    4150787.00        0.00000
         563834.00    4150787.00        0.00000
563884.00    4150787.00        0.00000
         563934.00    4150787.00        0.00000
563984.00    4150787.00        0.00000
         564034.00    4150787.00        0.00000
564084.00    4150787.00        0.00000
         564134.00    4150787.00        0.00000
564184.00    4150787.00        0.00000
         564234.00    4150787.00        0.00001
564284.00    4150787.00        0.00001
         564334.00    4150787.00        0.00002
564384.00    4150787.00        0.00002
         564434.00    4150787.00        0.00002
564484.00    4150787.00        0.00001
         564534.00    4150787.00        0.00001
564584.00    4150787.00        0.00000
         564634.00    4150787.00        0.00000
564684.00    4150787.00        0.00000
         563684.00    4150837.00        0.00000
563734.00    4150837.00        0.00000
         563784.00    4150837.00        0.00000
563834.00    4150837.00        0.00000
         563884.00    4150837.00        0.00000
563934.00    4150837.00        0.00000
         563984.00    4150837.00        0.00000
564034.00    4150837.00        0.00000
         564084.00    4150837.00        0.00000
564134.00    4150837.00        0.00000
         564184.00    4150837.00        0.00001
564234.00    4150837.00        0.00001
         564284.00    4150837.00        0.00003
564334.00    4150837.00        0.00006
         564384.00    4150837.00        0.00006
564434.00    4150837.00        0.00005
         564484.00    4150837.00        0.00003
564534.00    4150837.00        0.00001
         564584.00    4150837.00        0.00000
564634.00    4150837.00        0.00000
         564684.00    4150837.00        0.00000
563684.00    4150887.00        0.00000
         563734.00    4150887.00        0.00000
563784.00    4150887.00        0.00000
         563834.00    4150887.00        0.00000
563884.00    4150887.00        0.00000
         563934.00    4150887.00        0.00000
563984.00    4150887.00        0.00000
         564034.00    4150887.00        0.00000
564084.00    4150887.00        0.00000
         564134.00    4150887.00        0.00000
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```
564184.00    4150887.00        0.00001
         564234.00    4150887.00        0.00002
564284.00    4150887.00        0.00005
         564334.00    4150887.00        0.00003
564384.00    4150887.00        0.00002
         564434.00    4150887.00        0.00001
564484.00    4150887.00        0.00001
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF *** INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564534.00	4150887.00	0.00001	564584.00	4150887.00	0.00000
564634.00	4150887.00	0.00000	564684.00	4150887.00	0.00000
563684.00	4150937.00	0.00000	563734.00	4150937.00	0.00000
563784.00	4150937.00	0.00000	563834.00	4150937.00	0.00000
563884.00	4150937.00	0.00000	563934.00	4150937.00	0.00000
563984.00	4150937.00	0.00000	564034.00	4150937.00	0.00000
564084.00	4150937.00	0.00000	564134.00	4150937.00	0.00001
564184.00	4150937.00	0.00001	564234.00	4150937.00	0.00002
564284.00	4150937.00	0.00005	564334.00	4150937.00	0.00002
564384.00	4150937.00	0.00001	564434.00	4150937.00	0.00001
564484.00	4150937.00	0.00000			

```
564534.00    4150937.00        0.00000
         564584.00    4150937.00        0.00000
564634.00    4150937.00        0.00000
         564684.00    4150937.00        0.00000
563684.00    4150987.00        0.00000
         563734.00    4150987.00        0.00000
563784.00    4150987.00        0.00000
         563834.00    4150987.00        0.00000
563884.00    4150987.00        0.00000
         563934.00    4150987.00        0.00000
563984.00    4150987.00        0.00000
         564034.00    4150987.00        0.00000
564084.00    4150987.00        0.00001
         564134.00    4150987.00        0.00001
564184.00    4150987.00        0.00002
         564234.00    4150987.00        0.00005
564284.00    4150987.00        0.00002
         564334.00    4150987.00        0.00001
564384.00    4150987.00        0.00001
         564434.00    4150987.00        0.00000
564484.00    4150987.00        0.00000
         564534.00    4150987.00        0.00000
564584.00    4150987.00        0.00000
         564634.00    4150987.00        0.00000
564684.00    4150987.00        0.00000
         563684.00    4151037.00        0.00000
563734.00    4151037.00        0.00000
         563784.00    4151037.00        0.00000
563834.00    4151037.00        0.00000
         563884.00    4151037.00        0.00000
563934.00    4151037.00        0.00000
         563984.00    4151037.00        0.00000
564034.00    4151037.00        0.00000
         564084.00    4151037.00        0.00001
564134.00    4151037.00        0.00003
         564184.00    4151037.00        0.00005
564234.00    4151037.00        0.00002
         564284.00    4151037.00        0.00001
564334.00    4151037.00        0.00001
         564384.00    4151037.00        0.00000
564434.00    4151037.00        0.00000
         564484.00    4151037.00        0.00000
564534.00    4151037.00        0.00000
         564584.00    4151037.00        0.00000
564634.00    4151037.00        0.00000
         564684.00    4151037.00        0.00000
563684.00    4151087.00        0.00000
         563734.00    4151087.00        0.00000
563784.00    4151087.00        0.00000
         563834.00    4151087.00        0.00000
563884.00    4151087.00        0.00000
         563934.00    4151087.00        0.00000
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563984.00    4151087.00        0.00000
         564034.00    4151087.00        0.00000
564084.00    4151087.00        0.00001
         564134.00    4151087.00        0.00003
564184.00    4151087.00        0.00001
         564234.00    4151087.00        0.00001
564284.00    4151087.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564334.00	4151087.00	0.00000	564384.00	4151087.00	0.00000
564434.00	4151087.00	0.00000	564484.00	4151087.00	0.00000
564534.00	4151087.00	0.00000	564584.00	4151087.00	0.00000
564634.00	4151087.00	0.00000	564684.00	4151087.00	0.00000
563684.00	4151137.00	0.00000	563734.00	4151137.00	0.00000
563784.00	4151137.00	0.00000	563834.00	4151137.00	0.00000
563884.00	4151137.00	0.00000	563934.00	4151137.00	0.00000
563984.00	4151137.00	0.00000	564034.00	4151137.00	0.00000
564084.00	4151137.00	0.00000	564234.00	4151137.00	0.00000
564284.00	4151137.00	0.00000	564334.00	4151137.00	0.00000
564384.00	4151137.00	0.00000			

```
564434.00    4151137.00        0.00000
         564484.00    4151137.00        0.00000
564534.00    4151137.00        0.00000
         564584.00    4151137.00        0.00000
564634.00    4151137.00        0.00000
         564684.00    4151137.00        0.00000
563684.00    4151187.00        0.00000
         563734.00    4151187.00        0.00000
563784.00    4151187.00        0.00000
         563834.00    4151187.00        0.00000
563884.00    4151187.00        0.00000
         563934.00    4151187.00        0.00000
563984.00    4151187.00        0.00000
         564034.00    4151187.00        0.00000
564084.00    4151187.00        0.00000
         564234.00    4151187.00        0.00000
564284.00    4151187.00        0.00000
         564334.00    4151187.00        0.00000
564384.00    4151187.00        0.00000
         564434.00    4151187.00        0.00000
564484.00    4151187.00        0.00000
         564534.00    4151187.00        0.00000
564584.00    4151187.00        0.00000
         564634.00    4151187.00        0.00000
564684.00    4151187.00        0.00000
         563684.00    4151237.00        0.00000
563734.00    4151237.00        0.00000
         563784.00    4151237.00        0.00000
563834.00    4151237.00        0.00000
         563884.00    4151237.00        0.00000
563934.00    4151237.00        0.00000
         563984.00    4151237.00        0.00000
564034.00    4151237.00        0.00000
         564084.00    4151237.00        0.00000
564134.00    4151237.00        0.00000
         564234.00    4151237.00        0.00000
564284.00    4151237.00        0.00000
         564334.00    4151237.00        0.00000
564384.00    4151237.00        0.00000
         564434.00    4151237.00        0.00000
564484.00    4151237.00        0.00000
         564534.00    4151237.00        0.00000
564584.00    4151237.00        0.00000
         564634.00    4151237.00        0.00000
564684.00    4151237.00        0.00000
         563684.00    4151287.00        0.00000
563734.00    4151287.00        0.00000
         563784.00    4151287.00        0.00000
563834.00    4151287.00        0.00000
         563884.00    4151287.00        0.00000
563934.00    4151287.00        0.00000
         563984.00    4151287.00        0.00000
```

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564034.00    4151287.00        0.00000
         564084.00    4151287.00        0.00000
564134.00    4151287.00        0.00000
         564184.00    4151287.00        0.00000
564234.00    4151287.00        0.00000
         564284.00    4151287.00        0.00000
564334.00    4151287.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564384.00	4151287.00	0.00000	564434.00	4151287.00	0.00000
564484.00	4151287.00	0.00000	564534.00	4151287.00	0.00000
564584.00	4151287.00	0.00000	564634.00	4151287.00	0.00000
564684.00	4151287.00	0.00000	563684.00	4151337.00	0.00000
563734.00	4151337.00	0.00000	563784.00	4151337.00	0.00000
563834.00	4151337.00	0.00000	563884.00	4151337.00	0.00000
563934.00	4151337.00	0.00000	563984.00	4151337.00	0.00000
564034.00	4151337.00	0.00000	564084.00	4151337.00	0.00000
564134.00	4151337.00	0.00000	564184.00	4151337.00	0.00000
564234.00	4151337.00	0.00000	564284.00	4151337.00	0.00000
564334.00	4151337.00	0.00000			

```
564384.00    4151337.00        0.00000
         564434.00    4151337.00        0.00000
564484.00    4151337.00        0.00000
         564534.00    4151337.00        0.00000
564584.00    4151337.00        0.00000
         564634.00    4151337.00        0.00000
564684.00    4151337.00        0.00000
         563684.00    4151387.00        0.00000
563734.00    4151387.00        0.00000
         563784.00    4151387.00        0.00000
563834.00    4151387.00        0.00000
         563884.00    4151387.00        0.00000
563934.00    4151387.00        0.00000
         563984.00    4151387.00        0.00000
564034.00    4151387.00        0.00000
         564084.00    4151387.00        0.00000
564134.00    4151387.00        0.00000
         564184.00    4151387.00        0.00000
564234.00    4151387.00        0.00000
         564284.00    4151387.00        0.00000
564334.00    4151387.00        0.00000
         564384.00    4151387.00        0.00000
564434.00    4151387.00        0.00000
         564484.00    4151387.00        0.00000
564534.00    4151387.00        0.00000
         564584.00    4151387.00        0.00000
564634.00    4151387.00        0.00000
         564684.00    4151387.00        0.00000
563684.00    4151437.00        0.00000
         563734.00    4151437.00        0.00000
563784.00    4151437.00        0.00000
         563834.00    4151437.00        0.00000
563884.00    4151437.00        0.00000
         563934.00    4151437.00        0.00000
563984.00    4151437.00        0.00000
         564034.00    4151437.00        0.00000
564084.00    4151437.00        0.00000
         564134.00    4151437.00        0.00000
564184.00    4151437.00        0.00000
         564234.00    4151437.00        0.00000
564284.00    4151437.00        0.00000
         564334.00    4151437.00        0.00000
564384.00    4151437.00        0.00000
         564434.00    4151437.00        0.00000
564484.00    4151437.00        0.00000
         564534.00    4151437.00        0.00000
564584.00    4151437.00        0.00000
         564634.00    4151437.00        0.00000
564684.00    4151437.00        0.00000
         563684.00    4151487.00        0.00000
563734.00    4151487.00        0.00000
         563784.00    4151487.00        0.00000
```

```
563834.00    4151487.00        0.00000
         563884.00    4151487.00        0.00000
563934.00    4151487.00        0.00000
         563984.00    4151487.00        0.00000
564034.00    4151487.00        0.00000
         564084.00    4151487.00        0.00000
564134.00    4151487.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564184.00	4151487.00	0.00000	564234.00	4151487.00	0.00000
564284.00	4151487.00	0.00000	564334.00	4151487.00	0.00000
564384.00	4151487.00	0.00000	564434.00	4151487.00	0.00000
564484.00	4151487.00	0.00000	564534.00	4151487.00	0.00000
564584.00	4151487.00	0.00000	564634.00	4151487.00	0.00000
564684.00	4151487.00	0.00000	563684.00	4151537.00	0.00000
563734.00	4151537.00	0.00000	563784.00	4151537.00	0.00000
563834.00	4151537.00	0.00000	563884.00	4151537.00	0.00000
563934.00	4151537.00	0.00000	563984.00	4151537.00	0.00000
564034.00	4151537.00	0.00000	564084.00	4151537.00	0.00000
564134.00	4151537.00	0.00000			

```
564184.00    4151537.00        0.00000
         564234.00    4151537.00        0.00000
564284.00    4151537.00        0.00000
         564334.00    4151537.00        0.00000
564384.00    4151537.00        0.00000
         564434.00    4151537.00        0.00000
564484.00    4151537.00        0.00000
         564534.00    4151537.00        0.00000
564584.00    4151537.00        0.00000
         564634.00    4151537.00        0.00000
564684.00    4151537.00        0.00000
         563684.00    4151587.00        0.00000
563734.00    4151587.00        0.00000
         563784.00    4151587.00        0.00000
563834.00    4151587.00        0.00000
         563884.00    4151587.00        0.00000
563934.00    4151587.00        0.00000
         563984.00    4151587.00        0.00000
564034.00    4151587.00        0.00000
         564084.00    4151587.00        0.00000
564134.00    4151587.00        0.00000
         564184.00    4151587.00        0.00000
564234.00    4151587.00        0.00000
         564284.00    4151587.00        0.00000
564334.00    4151587.00        0.00000
         564384.00    4151587.00        0.00000
564434.00    4151587.00        0.00000
         564484.00    4151587.00        0.00000
564534.00    4151587.00        0.00000
         564584.00    4151587.00        0.00000
564634.00    4151587.00        0.00000
         564684.00    4151587.00        0.00000
563684.00    4151637.00        0.00000
         563734.00    4151637.00        0.00000
563784.00    4151637.00        0.00000
         563834.00    4151637.00        0.00000
563884.00    4151637.00        0.00000
         563934.00    4151637.00        0.00000
563984.00    4151637.00        0.00000
         564034.00    4151637.00        0.00000
564084.00    4151637.00        0.00000
         564134.00    4151637.00        0.00000
564184.00    4151637.00        0.00000
         564234.00    4151637.00        0.00000
564284.00    4151637.00        0.00000
         564334.00    4151637.00        0.00000
564384.00    4151637.00        0.00000
         564434.00    4151637.00        0.00000
564484.00    4151637.00        0.00000
         564534.00    4151637.00        0.00000
564584.00    4151637.00        0.00000
         564634.00    4151637.00        0.00000
```

```
564684.00    4151637.00        0.00000
         563684.00    4151687.00        0.00000
563734.00    4151687.00        0.00000
         563784.00    4151687.00        0.00000
563834.00    4151687.00        0.00000
         563884.00    4151687.00        0.00000
563934.00    4151687.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
563984.00	4151687.00	0.00000	564034.00	4151687.00	0.00000
564084.00	4151687.00	0.00000	564134.00	4151687.00	0.00000
564184.00	4151687.00	0.00000	564234.00	4151687.00	0.00000
564284.00	4151687.00	0.00000	564334.00	4151687.00	0.00000
564384.00	4151687.00	0.00000	564434.00	4151687.00	0.00000
564484.00	4151687.00	0.00000	564534.00	4151687.00	0.00000
564584.00	4151687.00	0.00000	564634.00	4151687.00	0.00000
564684.00	4151687.00	0.00000	564024.00	4150977.00	0.00000
564034.00	4150977.00	0.00000	564044.00	4150977.00	0.00000
564054.00	4150977.00	0.00000	564064.00	4150977.00	0.00000
564074.00	4150977.00	0.00000			

```
564084.00    4150977.00        0.00001
         564094.00    4150977.00        0.00001
564104.00    4150977.00        0.00001
         564114.00    4150977.00        0.00001
564124.00    4150977.00        0.00001
         564134.00    4150977.00        0.00001
564144.00    4150977.00        0.00001
         564024.00    4150987.00        0.00000
564034.00    4150987.00        0.00000
         564044.00    4150987.00        0.00000
564054.00    4150987.00        0.00000
         564064.00    4150987.00        0.00000
564074.00    4150987.00        0.00000
         564084.00    4150987.00        0.00001
564094.00    4150987.00        0.00001
         564104.00    4150987.00        0.00001
564114.00    4150987.00        0.00001
         564124.00    4150987.00        0.00001
564134.00    4150987.00        0.00001
         564144.00    4150987.00        0.00001
564024.00    4150997.00        0.00000
         564034.00    4150997.00        0.00000
564044.00    4150997.00        0.00000
         564054.00    4150997.00        0.00000
564064.00    4150997.00        0.00000
         564074.00    4150997.00        0.00001
564084.00    4150997.00        0.00001
         564094.00    4150997.00        0.00001
564104.00    4150997.00        0.00001
         564114.00    4150997.00        0.00001
564124.00    4150997.00        0.00001
         564134.00    4150997.00        0.00001
564144.00    4150997.00        0.00001
         564024.00    4151007.00        0.00000
564034.00    4151007.00        0.00000
         564044.00    4151007.00        0.00000
564054.00    4151007.00        0.00000
         564064.00    4151007.00        0.00000
564074.00    4151007.00        0.00001
         564084.00    4151007.00        0.00001
564094.00    4151007.00        0.00001
         564104.00    4151007.00        0.00001
564114.00    4151007.00        0.00001
         564124.00    4151007.00        0.00001
564134.00    4151007.00        0.00001
         564144.00    4151007.00        0.00002
564024.00    4151017.00        0.00000
         564034.00    4151017.00        0.00000
564044.00    4151017.00        0.00000
         564054.00    4151017.00        0.00000
564064.00    4151017.00        0.00001
         564074.00    4151017.00        0.00001
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```
564084.00    4151017.00        0.00001
         564094.00    4151017.00        0.00001
564104.00    4151017.00        0.00001
         564114.00    4151017.00        0.00001
564124.00    4151017.00        0.00001
         564134.00    4151017.00        0.00002
564144.00    4151017.00        0.00002
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):
A0000017 , A0000018 , A0000019 , A0000020 , A0000021 ,
A0000022 , A0000023 , A0000024 , A0000025 , A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 , A0000031 , A0000032 , A0000033 , A0000034 , A0000035 , A0000036 ,

*** 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
564024.00	4151027.00	0.00000	564034.00	4151027.00	0.00000
564044.00	4151027.00	0.00000	564054.00	4151027.00	0.00000
564064.00	4151027.00	0.00001	564074.00	4151027.00	0.00001
564084.00	4151027.00	0.00001	564094.00	4151027.00	0.00001
564104.00	4151027.00	0.00001	564114.00	4151027.00	0.00001
564124.00	4151027.00	0.00002	564134.00	4151027.00	0.00002
564144.00	4151027.00	0.00003	564024.00	4151037.00	0.00000
564034.00	4151037.00	0.00000	564044.00	4151037.00	0.00000
564054.00	4151037.00	0.00000	564064.00	4151037.00	0.00001
564074.00	4151037.00	0.00001	564084.00	4151037.00	0.00001
564094.00	4151037.00	0.00001			

564104.00 4151037.00 0.00001
564114.00 4151037.00 0.00002
564124.00 4151037.00 0.00002
564134.00 4151037.00 0.00003
564144.00 4151037.00 0.00003
564024.00 4151047.00 0.00000
564034.00 4151047.00 0.00000
564044.00 4151047.00 0.00000
564054.00 4151047.00 0.00001
564064.00 4151047.00 0.00001
564074.00 4151047.00 0.00001
564084.00 4151047.00 0.00001
564094.00 4151047.00 0.00001
564104.00 4151047.00 0.00001
564114.00 4151047.00 0.00002
564124.00 4151047.00 0.00002
564134.00 4151047.00 0.00003
564144.00 4151047.00 0.00004
564024.00 4151057.00 0.00000
564034.00 4151057.00 0.00000
564044.00 4151057.00 0.00000
564054.00 4151057.00 0.00001
564064.00 4151057.00 0.00001
564074.00 4151057.00 0.00001
564084.00 4151057.00 0.00001
564094.00 4151057.00 0.00001
564104.00 4151057.00 0.00002
564114.00 4151057.00 0.00002
564124.00 4151057.00 0.00003
564134.00 4151057.00 0.00004
564144.00 4151057.00 0.00005
564024.00 4151067.00 0.00000
564034.00 4151067.00 0.00000
564044.00 4151067.00 0.00000
564054.00 4151067.00 0.00001
564064.00 4151067.00 0.00001
564074.00 4151067.00 0.00001
564084.00 4151067.00 0.00001
564094.00 4151067.00 0.00001
564104.00 4151067.00 0.00002
564114.00 4151067.00 0.00003
564124.00 4151067.00 0.00003
564134.00 4151067.00 0.00004
564144.00 4151067.00 0.00005
564107.97 4151217.98 0.00000
564126.88 4151212.46 0.00000
564146.59 4151252.73 0.00000
564179.25 4151251.60 0.00000
564210.51 4151177.54 0.00000
564208.82 4151145.16 0.00000
564183.19 4151110.24 0.00001
564162.92 4151096.45 0.00001

564148.56   4151092.79   0.00002
         564126.03   4151098.98   0.00002
564088.27   4151128.81   0.00001

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564114.01	4151261.20	0.00374	564135.61	4151266.04	0.00304
564119.54	4151293.69	0.00180	564130.77	4151312.01	0.00126
564163.09	4151305.62	0.00115	564177.44	4151299.74	0.00115
564196.97	4151291.79	0.00115	564210.10	4151280.21	0.00129
564220.30	4151264.14	0.00172	564227.90	4151247.38	0.00254
564238.45	4151230.27	0.00368	564240.80	4151212.56	0.00546
564248.22	4151198.20	0.00641	564256.35	4151175.24	0.00746
564269.75	4151162.08	0.00654	564286.49	4151151.08	0.00530
564308.10	4151135.11	0.00408			

564329.77   4151126.39   0.00319
         564243.38   4151128.82   0.01115
564191.23   4151093.66   0.02008
         564176.16   4151074.52   0.01471
564232.45   4151110.30   0.01265
         564235.20   4151074.64   0.00840
564247.20   4151064.67   0.00651
         564261.03   4151054.91   0.00511
564279.33   4151048.00   0.00402
         564092.05   4151261.51   0.00356
564077.80   4151271.65   0.00290
         564075.89   4151298.68   0.00191
564092.20   4151320.13   0.00133
         564079.00   4151329.27   0.00124
564064.02   4151340.14   0.00114
         564053.40   4151343.64   0.00115
564038.54   4151353.00   0.00110
         564026.30   4151362.62   0.00106
564014.58   4151371.30   0.00105
         564004.15   4151384.96   0.00098
563986.52   4151397.01   0.00100
         563975.05   4151409.36   0.00097
563812.99   4151377.74   0.00164
         563786.51   4151378.74   0.00111
563747.29   4151364.63   0.00092
         563732.55   4151348.64   0.00084
564252.63   4151299.36   0.00079
         564270.08   4151278.80   0.00103
564280.78   4151263.04   0.00132
         564299.64   4151254.31   0.00141
564320.76   4151241.36   0.00153
         564338.49   4151199.69   0.00219
564223.05   4151086.47   0.01153
         564223.05   4151100.23   0.01373
564207.53   4151007.19   0.00436
         564220.50   4150997.85   0.00380
564231.22   4150986.27   0.00327
         564270.64   4151004.25   0.00314
564293.29   4151001.31   0.00263
         564316.46   4150997.68   0.00220
564190.93   4150987.82   0.00340
         564158.55   4151084.80   0.01789
563684.00   4150687.00   0.00012
         563734.00   4150687.00   0.00013
563784.00   4150687.00   0.00015
         563834.00   4150687.00   0.00016
563884.00   4150687.00   0.00018
         563934.00   4150687.00   0.00020
563984.00   4150687.00   0.00022
         564034.00   4150687.00   0.00025
564084.00   4150687.00   0.00029
         564134.00   4150687.00   0.00034

```
564184.00    4150687.00        0.00040
         564234.00    4150687.00        0.00046
564284.00    4150687.00        0.00049
         564334.00    4150687.00        0.00049
564384.00    4150687.00        0.00046
         564434.00    4150687.00        0.00042
564484.00    4150687.00        0.00038
         564534.00    4150687.00        0.00034
564584.00    4150687.00        0.00031
         564634.00    4150687.00        0.00028
564684.00    4150687.00        0.00025
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
563684.00	4150737.00	0.00013	563734.00	4150737.00	0.00015
563784.00	4150737.00	0.00017	563834.00	4150737.00	0.00019
563884.00	4150737.00	0.00021	563934.00	4150737.00	0.00024
563984.00	4150737.00	0.00027	564034.00	4150737.00	0.00030
564084.00	4150737.00	0.00036	564134.00	4150737.00	0.00043
564184.00	4150737.00	0.00051	564234.00	4150737.00	0.00057
564284.00	4150737.00	0.00061	564334.00	4150737.00	0.00059
564384.00	4150737.00	0.00055	564434.00	4150737.00	0.00049
564484.00	4150737.00	0.00043			

564534.00 4150737.00 0.00038
564584.00 4150737.00 0.00034
564634.00 4150737.00 0.00030
564684.00 4150737.00 0.00027
563684.00 4150787.00 0.00015
563734.00 4150787.00 0.00017
563784.00 4150787.00 0.00020
563834.00 4150787.00 0.00022
563884.00 4150787.00 0.00025
563934.00 4150787.00 0.00029
563984.00 4150787.00 0.00033
564034.00 4150787.00 0.00038
564084.00 4150787.00 0.00045
564134.00 4150787.00 0.00055
564184.00 4150787.00 0.00066
564234.00 4150787.00 0.00075
564284.00 4150787.00 0.00077
564334.00 4150787.00 0.00073
564384.00 4150787.00 0.00065
564434.00 4150787.00 0.00057
564484.00 4150787.00 0.00049
564534.00 4150787.00 0.00043
564584.00 4150787.00 0.00038
564634.00 4150787.00 0.00034
564684.00 4150787.00 0.00030
563684.00 4150837.00 0.00017
563734.00 4150837.00 0.00019
563784.00 4150837.00 0.00023
563834.00 4150837.00 0.00026
563884.00 4150837.00 0.00031
563934.00 4150837.00 0.00036
563984.00 4150837.00 0.00041
564034.00 4150837.00 0.00048
564084.00 4150837.00 0.00058
564134.00 4150837.00 0.00073
564184.00 4150837.00 0.00089
564234.00 4150837.00 0.00100
564284.00 4150837.00 0.00100
564334.00 4150837.00 0.00091
564384.00 4150837.00 0.00078
564434.00 4150837.00 0.00067
564484.00 4150837.00 0.00057
564534.00 4150837.00 0.00049
564584.00 4150837.00 0.00042
564634.00 4150837.00 0.00037
564684.00 4150837.00 0.00032
563684.00 4150887.00 0.00018
563734.00 4150887.00 0.00022
563784.00 4150887.00 0.00026
563834.00 4150887.00 0.00031
563884.00 4150887.00 0.00038
563934.00 4150887.00 0.00045

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563984.00    4150887.00        0.00054
         564034.00    4150887.00        0.00064
564084.00    4150887.00        0.00079
         564134.00    4150887.00        0.00101
564184.00    4150887.00        0.00127
         564234.00    4150887.00        0.00140
564284.00    4150887.00        0.00133
         564334.00    4150887.00        0.00114
564384.00    4150887.00        0.00094
         564434.00    4150887.00        0.00078
564484.00    4150887.00        0.00065
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564534.00	4150887.00	0.00055	564584.00	4150887.00	0.00046
564634.00	4150887.00	0.00040	564684.00	4150887.00	0.00034
563684.00	4150937.00	0.00020	563734.00	4150937.00	0.00024
563784.00	4150937.00	0.00030	563834.00	4150937.00	0.00037
563884.00	4150937.00	0.00046	563934.00	4150937.00	0.00058
563984.00	4150937.00	0.00072	564034.00	4150937.00	0.00089
564084.00	4150937.00	0.00112	564134.00	4150937.00	0.00150
564184.00	4150937.00	0.00194	564234.00	4150937.00	0.00207
564284.00	4150937.00	0.00182			

564334.00 4150937.00 0.00145
564384.00 4150937.00 0.00114
564434.00 4150937.00 0.00091
564484.00 4150937.00 0.00074
564534.00 4150937.00 0.00061
564584.00 4150937.00 0.00051
564634.00 4150937.00 0.00043
564684.00 4150937.00 0.00036
563684.00 4150987.00 0.00022
563734.00 4150987.00 0.00027
563784.00 4150987.00 0.00034
563834.00 4150987.00 0.00043
563884.00 4150987.00 0.00056
563934.00 4150987.00 0.00075
563984.00 4150987.00 0.00099
564034.00 4150987.00 0.00131
564084.00 4150987.00 0.00175
564134.00 4150987.00 0.00249
564184.00 4150987.00 0.00331
564234.00 4150987.00 0.00326
564284.00 4150987.00 0.00254
564334.00 4150987.00 0.00186
564384.00 4150987.00 0.00138
564434.00 4150987.00 0.00105
564484.00 4150987.00 0.00083
564534.00 4150987.00 0.00066
564584.00 4150987.00 0.00054
564634.00 4150987.00 0.00045
564684.00 4150987.00 0.00038
563684.00 4151037.00 0.00024
563734.00 4151037.00 0.00029
563784.00 4151037.00 0.00037
563834.00 4151037.00 0.00049
563884.00 4151037.00 0.00067
563934.00 4151037.00 0.00094
563984.00 4151037.00 0.00136
564034.00 4151037.00 0.00202
564084.00 4151037.00 0.00311
564134.00 4151037.00 0.00498
564184.00 4151037.00 0.00684
564234.00 4151037.00 0.00554
564284.00 4151037.00 0.00357
564334.00 4151037.00 0.00234
564384.00 4151037.00 0.00163
564434.00 4151037.00 0.00119
564484.00 4151037.00 0.00091
564534.00 4151037.00 0.00071
564584.00 4151037.00 0.00058
564634.00 4151037.00 0.00047
564684.00 4151037.00 0.00040
563684.00 4151087.00 0.00026
563734.00 4151087.00 0.00032

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563784.00    4151087.00        0.00042
         563834.00    4151087.00        0.00056
563884.00    4151087.00        0.00077
         563934.00    4151087.00        0.00113
563984.00    4151087.00        0.00179
         564034.00    4151087.00        0.00312
564084.00    4151087.00        0.00619
         564134.00    4151087.00        0.01460
564184.00    4151087.00        0.01870
         564234.00    4151087.00        0.00980
564284.00    4151087.00        0.00486
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564334.00	4151087.00	0.00284	564384.00	4151087.00	0.00185
564434.00	4151087.00	0.00131	564484.00	4151087.00	0.00097
564534.00	4151087.00	0.00075	564584.00	4151087.00	0.00059
564634.00	4151087.00	0.00048	564684.00	4151087.00	0.00040
563684.00	4151137.00	0.00028	563734.00	4151137.00	0.00035
563784.00	4151137.00	0.00046	563834.00	4151137.00	0.00062
563884.00	4151137.00	0.00087	563934.00	4151137.00	0.00130
563984.00	4151137.00	0.00215	564034.00	4151137.00	0.00432
564084.00	4151137.00	0.01159			

564234.00 4151137.00 0.01376
564284.00 4151137.00 0.00561
564334.00 4151137.00 0.00304
564384.00 4151137.00 0.00192
564434.00 4151137.00 0.00132
564484.00 4151137.00 0.00097
564534.00 4151137.00 0.00074
564584.00 4151137.00 0.00058
564634.00 4151137.00 0.00047
564684.00 4151137.00 0.00039
563684.00 4151187.00 0.00029
563734.00 4151187.00 0.00038
563784.00 4151187.00 0.00050
563834.00 4151187.00 0.00068
563884.00 4151187.00 0.00095
563934.00 4151187.00 0.00140
563984.00 4151187.00 0.00233
564034.00 4151187.00 0.00470
564084.00 4151187.00 0.01298
564234.00 4151187.00 0.00988
564284.00 4151187.00 0.00441
564334.00 4151187.00 0.00252
564384.00 4151187.00 0.00164
564434.00 4151187.00 0.00116
564484.00 4151187.00 0.00086
564534.00 4151187.00 0.00067
564584.00 4151187.00 0.00053
564634.00 4151187.00 0.00043
564684.00 4151187.00 0.00036
563684.00 4151237.00 0.00031
563734.00 4151237.00 0.00042
563784.00 4151237.00 0.00058
563834.00 4151237.00 0.00078
563884.00 4151237.00 0.00103
563934.00 4151237.00 0.00149
563984.00 4151237.00 0.00255
564034.00 4151237.00 0.00443
564084.00 4151237.00 0.00571
564134.00 4151237.00 0.00814
564234.00 4151237.00 0.00322
564284.00 4151237.00 0.00212
564334.00 4151237.00 0.00150
564384.00 4151237.00 0.00111
564434.00 4151237.00 0.00085
564484.00 4151237.00 0.00067
564534.00 4151237.00 0.00054
564584.00 4151237.00 0.00044
564634.00 4151237.00 0.00037
564684.00 4151237.00 0.00031
563684.00 4151287.00 0.00035
563734.00 4151287.00 0.00053
563784.00 4151287.00 0.00084

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563834.00    4151287.00        0.00105
         563884.00    4151287.00        0.00124
563934.00    4151287.00        0.00188
         563984.00    4151287.00        0.00327
564034.00    4151287.00        0.00263
         564084.00    4151287.00        0.00225
564134.00    4151287.00        0.00189
         564184.00    4151287.00        0.00134
564234.00    4151287.00        0.00103
         564284.00    4151287.00        0.00086
564334.00    4151287.00        0.00073
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564384.00	4151287.00	0.00063	564434.00	4151287.00	0.00053
564484.00	4151287.00	0.00046	564534.00	4151287.00	0.00039
564584.00	4151287.00	0.00034	564634.00	4151287.00	0.00029
564684.00	4151287.00	0.00025	563684.00	4151337.00	0.00037
563734.00	4151337.00	0.00088	563784.00	4151337.00	0.00189
563834.00	4151337.00	0.00202	563884.00	4151337.00	0.00176
563934.00	4151337.00	0.00270	563984.00	4151337.00	0.00197
564034.00	4151337.00	0.00134	564084.00	4151337.00	0.00110
564134.00	4151337.00	0.00088			

564184.00 4151337.00 0.00070
564234.00 4151337.00 0.00056
564284.00 4151337.00 0.00046
564334.00 4151337.00 0.00039
564384.00 4151337.00 0.00036
564434.00 4151337.00 0.00032
564484.00 4151337.00 0.00029
564534.00 4151337.00 0.00027
564584.00 4151337.00 0.00024
564634.00 4151337.00 0.00022
564684.00 4151337.00 0.00020
563684.00 4151387.00 0.00031
563734.00 4151387.00 0.00054
563784.00 4151387.00 0.00093
563834.00 4151387.00 0.00168
563884.00 4151387.00 0.00254
563934.00 4151387.00 0.00207
563984.00 4151387.00 0.00115
564034.00 4151387.00 0.00081
564084.00 4151387.00 0.00064
564134.00 4151387.00 0.00053
564184.00 4151387.00 0.00044
564234.00 4151387.00 0.00037
564284.00 4151387.00 0.00030
564334.00 4151387.00 0.00026
564384.00 4151387.00 0.00023
564434.00 4151387.00 0.00021
564484.00 4151387.00 0.00019
564534.00 4151387.00 0.00018
564584.00 4151387.00 0.00017
564634.00 4151387.00 0.00016
564684.00 4151387.00 0.00015
563684.00 4151437.00 0.00024
563734.00 4151437.00 0.00034
563784.00 4151437.00 0.00049
563834.00 4151437.00 0.00085
563884.00 4151437.00 0.00110
563934.00 4151437.00 0.00090
563984.00 4151437.00 0.00061
564034.00 4151437.00 0.00048
564084.00 4151437.00 0.00040
564134.00 4151437.00 0.00034
564184.00 4151437.00 0.00030
564234.00 4151437.00 0.00026
564284.00 4151437.00 0.00022
564334.00 4151437.00 0.00019
564384.00 4151437.00 0.00016
564434.00 4151437.00 0.00015
564484.00 4151437.00 0.00014
564534.00 4151437.00 0.00013
564584.00 4151437.00 0.00012
564634.00 4151437.00 0.00011

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564684.00    4151437.00        0.00011
         563684.00    4151487.00        0.00019
563734.00    4151487.00        0.00024
         563784.00    4151487.00        0.00030
563834.00    4151487.00        0.00036
         563884.00    4151487.00        0.00036
563934.00    4151487.00        0.00033
         563984.00    4151487.00        0.00031
564034.00    4151487.00        0.00028
         564084.00    4151487.00        0.00025
564134.00    4151487.00        0.00023
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564184.00	4151487.00	0.00021	564234.00	4151487.00	0.00019
564284.00	4151487.00	0.00016	564334.00	4151487.00	0.00014
564384.00	4151487.00	0.00013	564434.00	4151487.00	0.00011
564484.00	4151487.00	0.00010	564534.00	4151487.00	0.00009
564584.00	4151487.00	0.00009	564634.00	4151487.00	0.00009
564684.00	4151487.00	0.00008	563684.00	4151537.00	0.00016
563734.00	4151537.00	0.00018	563784.00	4151537.00	0.00021
563834.00	4151537.00	0.00022	563884.00	4151537.00	0.00022
563934.00	4151537.00	0.00021			

```
563984.00    4151537.00        0.00020
         564034.00    4151537.00        0.00018
564084.00    4151537.00        0.00017
         564134.00    4151537.00        0.00016
564184.00    4151537.00        0.00015
         564234.00    4151537.00        0.00014
564284.00    4151537.00        0.00013
         564334.00    4151537.00        0.00011
564384.00    4151537.00        0.00010
         564434.00    4151537.00        0.00009
564484.00    4151537.00        0.00008
         564534.00    4151537.00        0.00007
564584.00    4151537.00        0.00007
         564634.00    4151537.00        0.00007
564684.00    4151537.00        0.00006
         563684.00    4151587.00        0.00013
563734.00    4151587.00        0.00015
         563784.00    4151587.00        0.00016
563834.00    4151587.00        0.00016
         563884.00    4151587.00        0.00016
563934.00    4151587.00        0.00015
         563984.00    4151587.00        0.00014
564034.00    4151587.00        0.00013
         564084.00    4151587.00        0.00013
564134.00    4151587.00        0.00012
         564184.00    4151587.00        0.00011
564234.00    4151587.00        0.00011
         564284.00    4151587.00        0.00010
564334.00    4151587.00        0.00009
         564384.00    4151587.00        0.00008
564434.00    4151587.00        0.00007
         564484.00    4151587.00        0.00007
564534.00    4151587.00        0.00006
         564584.00    4151587.00        0.00006
564634.00    4151587.00        0.00005
         564684.00    4151587.00        0.00005
563684.00    4151637.00        0.00011
         563734.00    4151637.00        0.00012
563784.00    4151637.00        0.00012
         563834.00    4151637.00        0.00012
563884.00    4151637.00        0.00012
         563934.00    4151637.00        0.00012
563984.00    4151637.00        0.00011
         564034.00    4151637.00        0.00010
564084.00    4151637.00        0.00010
         564134.00    4151637.00        0.00009
564184.00    4151637.00        0.00009
         564234.00    4151637.00        0.00008
564284.00    4151637.00        0.00008
         564334.00    4151637.00        0.00007
564384.00    4151637.00        0.00007
         564434.00    4151637.00        0.00006
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564484.00    4151637.00        0.00006
         564534.00    4151637.00        0.00005
564584.00    4151637.00        0.00005
         564634.00    4151637.00        0.00004
564684.00    4151637.00        0.00004
         563684.00    4151687.00        0.00009
563734.00    4151687.00        0.00010
         563784.00    4151687.00        0.00010
563834.00    4151687.00        0.00010
         563884.00    4151687.00        0.00010
563934.00    4151687.00        0.00009
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
563984.00	4151687.00	0.00009	564034.00	4151687.00	0.00008
564084.00	4151687.00	0.00008	564134.00	4151687.00	0.00008
564184.00	4151687.00	0.00007	564234.00	4151687.00	0.00007
564284.00	4151687.00	0.00006	564334.00	4151687.00	0.00006
564384.00	4151687.00	0.00006	564434.00	4151687.00	0.00005
564484.00	4151687.00	0.00005	564534.00	4151687.00	0.00004
564584.00	4151687.00	0.00004	564634.00	4151687.00	0.00004
564684.00	4151687.00	0.00004	564024.00	4150977.00	0.00114
564034.00	4150977.00	0.00120			

564044.00 4150977.00 0.00127
564054.00 4150977.00 0.00134
564064.00 4150977.00 0.00141
564074.00 4150977.00 0.00150
564084.00 4150977.00 0.00159
564094.00 4150977.00 0.00169
564104.00 4150977.00 0.00180
564114.00 4150977.00 0.00193
564124.00 4150977.00 0.00207
564134.00 4150977.00 0.00222
564144.00 4150977.00 0.00238
564024.00 4150987.00 0.00124
564034.00 4150987.00 0.00131
564044.00 4150987.00 0.00138
564054.00 4150987.00 0.00146
564064.00 4150987.00 0.00155
564074.00 4150987.00 0.00164
564084.00 4150987.00 0.00175
564094.00 4150987.00 0.00187
564104.00 4150987.00 0.00200
564114.00 4150987.00 0.00215
564124.00 4150987.00 0.00231
564134.00 4150987.00 0.00249
564144.00 4150987.00 0.00267
564024.00 4150997.00 0.00134
564034.00 4150997.00 0.00142
564044.00 4150997.00 0.00151
564054.00 4150997.00 0.00160
564064.00 4150997.00 0.00170
564074.00 4150997.00 0.00182
564084.00 4150997.00 0.00194
564094.00 4150997.00 0.00208
564104.00 4150997.00 0.00223
564114.00 4150997.00 0.00240
564124.00 4150997.00 0.00259
564134.00 4150997.00 0.00280
564144.00 4150997.00 0.00302
564024.00 4151007.00 0.00145
564034.00 4151007.00 0.00155
564044.00 4151007.00 0.00165
564054.00 4151007.00 0.00176
564064.00 4151007.00 0.00188
564074.00 4151007.00 0.00202
564084.00 4151007.00 0.00216
564094.00 4151007.00 0.00232
564104.00 4151007.00 0.00250
564114.00 4151007.00 0.00271
564124.00 4151007.00 0.00294
564134.00 4151007.00 0.00318
564144.00 4151007.00 0.00345
564024.00 4151017.00 0.00158
564034.00 4151017.00 0.00169

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564044.00    4151017.00        0.00182
         564054.00    4151017.00        0.00195
564064.00    4151017.00        0.00209
         564074.00    4151017.00        0.00225
564084.00    4151017.00        0.00242
         564094.00    4151017.00        0.00262
564104.00    4151017.00        0.00283
         564114.00    4151017.00        0.00308
564124.00    4151017.00        0.00335
         564134.00    4151017.00        0.00365
564144.00    4151017.00        0.00397
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ALL ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 , A0000037 , A0000038 , A0000039 , A0000040 ,
A0000041 , A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , . . . ,

*** 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
564024.00	4151027.00	0.00172	564034.00	4151027.00	0.00185
564044.00	4151027.00	0.00200	564054.00	4151027.00	0.00216
564064.00	4151027.00	0.00233	564074.00	4151027.00	0.00252
564084.00	4151027.00	0.00274	564094.00	4151027.00	0.00297
564104.00	4151027.00	0.00324	564114.00	4151027.00	0.00354
564124.00	4151027.00	0.00387	564134.00	4151027.00	0.00424
564144.00	4151027.00	0.00463	564024.00	4151037.00	0.00186
564034.00	4151037.00	0.00202	564044.00	4151037.00	0.00220
564054.00	4151037.00	0.00239			

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564064.00    4151037.00        0.00261
         564074.00    4151037.00        0.00284
564084.00    4151037.00        0.00311
         564094.00    4151037.00        0.00340
564104.00    4151037.00        0.00373
         564114.00    4151037.00        0.00410
564124.00    4151037.00        0.00452
         564134.00    4151037.00        0.00498
564144.00    4151037.00        0.00548
         564024.00    4151047.00        0.00202
564034.00    4151047.00        0.00221
         564044.00    4151047.00        0.00242
564054.00    4151047.00        0.00266
         564064.00    4151047.00        0.00292
564074.00    4151047.00        0.00322
         564084.00    4151047.00        0.00355
564094.00    4151047.00        0.00393
         564104.00    4151047.00        0.00435
564114.00    4151047.00        0.00483
         564124.00    4151047.00        0.00536
564134.00    4151047.00        0.00596
         564144.00    4151047.00        0.00659
564024.00    4151057.00        0.00220
         564034.00    4151057.00        0.00242
564044.00    4151057.00        0.00267
         564054.00    4151057.00        0.00295
564064.00    4151057.00        0.00327
         564074.00    4151057.00        0.00365
564084.00    4151057.00        0.00407
         564094.00    4151057.00        0.00456
564104.00    4151057.00        0.00512
         564114.00    4151057.00        0.00575
564124.00    4151057.00        0.00646
         564134.00    4151057.00        0.00725
564144.00    4151057.00        0.00808
         564024.00    4151067.00        0.00238
564034.00    4151067.00        0.00264
         564044.00    4151067.00        0.00293
564054.00    4151067.00        0.00327
         564064.00    4151067.00        0.00367
564074.00    4151067.00        0.00414
         564084.00    4151067.00        0.00469
564094.00    4151067.00        0.00533
         564104.00    4151067.00        0.00609
564114.00    4151067.00        0.00695
         564124.00    4151067.00        0.00793
564134.00    4151067.00        0.00902
         564144.00    4151067.00        0.01014
564107.97    4151217.98        0.01152
         564126.88    4151212.46        0.01652
564146.59    4151252.73        0.00409
         564179.25    4151251.60        0.00310
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564210.51    4151177.54        0.01871
         564208.82    4151145.16        0.02329
564183.19    4151110.24        0.02512
         564162.92    4151096.45        0.02191
564148.56    4151092.79        0.01984
         564126.03    4151098.98        0.01641
564088.27    4151128.81        0.01140
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564114.01	4151261.20	0.00323	564135.61	4151266.04	0.00265
564119.54	4151293.69	0.00145	564130.77	4151312.01	0.00098
564163.09	4151305.62	0.00092	564177.44	4151299.74	0.00094
564196.97	4151291.79	0.00096	564210.10	4151280.21	0.00110
564220.30	4151264.14	0.00153	564227.90	4151247.38	0.00235
564238.45	4151230.27	0.00349	564240.80	4151212.56	0.00527
564248.22	4151198.20	0.00624	564256.35	4151175.24	0.00730
564269.75	4151162.08	0.00640	564286.49	4151151.08	0.00518
564308.10	4151135.11	0.00397	564329.77	4151126.39	0.00309
564243.38	4151128.82	0.01099	564191.23	4151093.66	0.01989
564176.16	4151074.52	0.01452	564232.45	4151110.30	0.01249
564235.20	4151074.64	0.00826	564247.20	4151064.67	0.00639
564261.03	4151054.91	0.00500	564279.33	4151048.00	0.00392
564092.05	4151261.51	0.00287			

564077.80   4151271.65   0.00215
         564075.89   4151298.68   0.00134
564092.20   4151320.13   0.00096
         564079.00   4151329.27   0.00084
564064.02   4151340.14   0.00073
         564053.40   4151343.64   0.00070
564038.54   4151353.00   0.00062
         564026.30   4151362.62   0.00055
564014.58   4151371.30   0.00050
         564004.15   4151384.96   0.00044
563986.52   4151397.01   0.00038
         563975.05   4151409.36   0.00034
563812.99   4151377.74   0.00022
         563786.51   4151378.74   0.00020
563747.29   4151364.63   0.00018
         563732.55   4151348.64   0.00017
564252.63   4151299.36   0.00066
         564270.08   4151278.80   0.00090
564280.78   4151263.04   0.00119
         564299.64   4151254.31   0.00129
564320.76   4151241.36   0.00143
         564338.49   4151199.69   0.00209
564223.05   4151086.47   0.01138
         564223.05   4151100.23   0.01357
564207.53   4151007.19   0.00424
         564220.50   4150997.85   0.00370
564231.22   4150986.27   0.00317
         564270.64   4151004.25   0.00305
564293.29   4151001.31   0.00255
         564316.46   4150997.68   0.00212
564190.93   4150987.82   0.00329
         564158.55   4151084.80   0.01767
563684.00   4150687.00   0.00010
         563734.00   4150687.00   0.00012
563784.00   4150687.00   0.00013
         563834.00   4150687.00   0.00014
563884.00   4150687.00   0.00016
         563934.00   4150687.00   0.00017
563984.00   4150687.00   0.00019
         564034.00   4150687.00   0.00022
564084.00   4150687.00   0.00026
         564134.00   4150687.00   0.00031
564184.00   4150687.00   0.00037
         564234.00   4150687.00   0.00042
564284.00   4150687.00   0.00045
         564334.00   4150687.00   0.00045
564384.00   4150687.00   0.00043
         564434.00   4150687.00   0.00039
564484.00   4150687.00   0.00035
         564534.00   4150687.00   0.00032
564584.00   4150687.00   0.00028
         564634.00   4150687.00   0.00026

564684.00 4150687.00 0.00023

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
563684.00	4150737.00	0.00012	563734.00	4150737.00	0.00013
563784.00	4150737.00	0.00015	563834.00	4150737.00	0.00017
563884.00	4150737.00	0.00019	563934.00	4150737.00	0.00021
563984.00	4150737.00	0.00023	564034.00	4150737.00	0.00027
564084.00	4150737.00	0.00032	564134.00	4150737.00	0.00039
564184.00	4150737.00	0.00046	564234.00	4150737.00	0.00053
564284.00	4150737.00	0.00057	564334.00	4150737.00	0.00056
564384.00	4150737.00	0.00051	564434.00	4150737.00	0.00046
564484.00	4150737.00	0.00040	564534.00	4150737.00	0.00036
564584.00	4150737.00	0.00032	564634.00	4150737.00	0.00028
564684.00	4150737.00	0.00025	563684.00	4150787.00	0.00013
563734.00	4150787.00	0.00015	563784.00	4150787.00	0.00017
563834.00	4150787.00	0.00020	563884.00	4150787.00	0.00022
563934.00	4150787.00	0.00025			

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563984.00    4150787.00        0.00029
         564034.00    4150787.00        0.00033
564084.00    4150787.00        0.00040
         564134.00    4150787.00        0.00050
564184.00    4150787.00        0.00061
         564234.00    4150787.00        0.00070
564284.00    4150787.00        0.00073
         564334.00    4150787.00        0.00069
564384.00    4150787.00        0.00061
         564434.00    4150787.00        0.00053
564484.00    4150787.00        0.00046
         564534.00    4150787.00        0.00040
564584.00    4150787.00        0.00035
         564634.00    4150787.00        0.00031
564684.00    4150787.00        0.00028
         563684.00    4150837.00        0.00014
563734.00    4150837.00        0.00017
         563784.00    4150837.00        0.00020
563834.00    4150837.00        0.00023
         563884.00    4150837.00        0.00027
563934.00    4150837.00        0.00031
         563984.00    4150837.00        0.00036
564034.00    4150837.00        0.00043
         564084.00    4150837.00        0.00052
564134.00    4150837.00        0.00067
         564184.00    4150837.00        0.00083
564234.00    4150837.00        0.00095
         564284.00    4150837.00        0.00095
564334.00    4150837.00        0.00086
         564384.00    4150837.00        0.00074
564434.00    4150837.00        0.00063
         564484.00    4150837.00        0.00053
564534.00    4150837.00        0.00046
         564584.00    4150837.00        0.00039
564634.00    4150837.00        0.00034
         564684.00    4150837.00        0.00030
563684.00    4150887.00        0.00016
         563734.00    4150887.00        0.00019
563784.00    4150887.00        0.00023
         563834.00    4150887.00        0.00027
563884.00    4150887.00        0.00033
         563934.00    4150887.00        0.00040
563984.00    4150887.00        0.00047
         564034.00    4150887.00        0.00057
564084.00    4150887.00        0.00071
         564134.00    4150887.00        0.00094
564184.00    4150887.00        0.00119
         564234.00    4150887.00        0.00133
564284.00    4150887.00        0.00127
         564334.00    4150887.00        0.00109
564384.00    4150887.00        0.00090
         564434.00    4150887.00        0.00074
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564484.00 4150887.00 0.00061

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564534.00	4150887.00	0.00051	564584.00	4150887.00	0.00044
564634.00	4150887.00	0.00037	564684.00	4150887.00	0.00032
563684.00	4150937.00	0.00017	563734.00	4150937.00	0.00021
563784.00	4150937.00	0.00026	563834.00	4150937.00	0.00032
563884.00	4150937.00	0.00041	563934.00	4150937.00	0.00051
563984.00	4150937.00	0.00064	564034.00	4150937.00	0.00080
564084.00	4150937.00	0.00103	564134.00	4150937.00	0.00141
564184.00	4150937.00	0.00185	564234.00	4150937.00	0.00199
564284.00	4150937.00	0.00175	564334.00	4150937.00	0.00139
564384.00	4150937.00	0.00109	564434.00	4150937.00	0.00087
564484.00	4150937.00	0.00070	564534.00	4150937.00	0.00057
564584.00	4150937.00	0.00047	564634.00	4150937.00	0.00040
564684.00	4150937.00	0.00034	563684.00	4150987.00	0.00018
563734.00	4150987.00	0.00022			

```
563784.00    4150987.00        0.00028
         563834.00    4150987.00        0.00037
563884.00    4150987.00        0.00049
         563934.00    4150987.00        0.00066
563984.00    4150987.00        0.00089
         564034.00    4150987.00        0.00119
564084.00    4150987.00        0.00162
         564134.00    4150987.00        0.00236
564184.00    4150987.00        0.00320
         564234.00    4150987.00        0.00316
564284.00    4150987.00        0.00246
         564334.00    4150987.00        0.00179
564384.00    4150987.00        0.00132
         564434.00    4150987.00        0.00100
564484.00    4150987.00        0.00078
         564534.00    4150987.00        0.00063
564584.00    4150987.00        0.00051
         564634.00    4150987.00        0.00042
564684.00    4150987.00        0.00036
         563684.00    4151037.00        0.00019
563734.00    4151037.00        0.00024
         563784.00    4151037.00        0.00031
563834.00    4151037.00        0.00041
         563884.00    4151037.00        0.00057
563934.00    4151037.00        0.00082
         563984.00    4151037.00        0.00122
564034.00    4151037.00        0.00186
         564084.00    4151037.00        0.00293
564134.00    4151037.00        0.00481
         564184.00    4151037.00        0.00669
564234.00    4151037.00        0.00542
         564284.00    4151037.00        0.00348
564334.00    4151037.00        0.00226
         564384.00    4151037.00        0.00157
564434.00    4151037.00        0.00114
         564484.00    4151037.00        0.00086
564534.00    4151037.00        0.00068
         564584.00    4151037.00        0.00054
564634.00    4151037.00        0.00044
         564684.00    4151037.00        0.00037
563684.00    4151087.00        0.00020
         563734.00    4151087.00        0.00025
563784.00    4151087.00        0.00033
         563834.00    4151087.00        0.00044
563884.00    4151087.00        0.00063
         563934.00    4151087.00        0.00096
563984.00    4151087.00        0.00159
         564034.00    4151087.00        0.00288
564084.00    4151087.00        0.00591
         564134.00    4151087.00        0.01435
564184.00    4151087.00        0.01850
         564234.00    4151087.00        0.00966
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564284.00 4151087.00 0.00475

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564334.00	4151087.00	0.00275	564384.00	4151087.00	0.00178
564434.00	4151087.00	0.00125	564484.00	4151087.00	0.00092
564534.00	4151087.00	0.00071	564584.00	4151087.00	0.00056
564634.00	4151087.00	0.00045	564684.00	4151087.00	0.00037
563684.00	4151137.00	0.00021	563734.00	4151137.00	0.00026
563784.00	4151137.00	0.00034	563834.00	4151137.00	0.00046
563884.00	4151137.00	0.00067	563934.00	4151137.00	0.00104
563984.00	4151137.00	0.00182	564034.00	4151137.00	0.00388
564084.00	4151137.00	0.01107	564234.00	4151137.00	0.01359
564284.00	4151137.00	0.00549	564334.00	4151137.00	0.00295
564384.00	4151137.00	0.00184	564434.00	4151137.00	0.00126
564484.00	4151137.00	0.00092	564534.00	4151137.00	0.00070
564584.00	4151137.00	0.00055	564634.00	4151137.00	0.00044
564684.00	4151137.00	0.00036			

```
563684.00    4151187.00        0.00020
         563734.00    4151187.00        0.00026
563784.00    4151187.00        0.00033
         563834.00    4151187.00        0.00045
563884.00    4151187.00        0.00064
         563934.00    4151187.00        0.00099
563984.00    4151187.00        0.00172
         564034.00    4151187.00        0.00367
564084.00    4151187.00        0.01153
         564234.00    4151187.00        0.00969
564284.00    4151187.00        0.00427
         564334.00    4151187.00        0.00242
564384.00    4151187.00        0.00157
         564434.00    4151187.00        0.00110
564484.00    4151187.00        0.00081
         564534.00    4151187.00        0.00062
564584.00    4151187.00        0.00050
         564634.00    4151187.00        0.00040
564684.00    4151187.00        0.00033
         563684.00    4151237.00        0.00019
563734.00    4151237.00        0.00023
         563784.00    4151237.00        0.00030
563834.00    4151237.00        0.00040
         563884.00    4151237.00        0.00055
563934.00    4151237.00        0.00082
         563984.00    4151237.00        0.00131
564034.00    4151237.00        0.00232
         564084.00    4151237.00        0.00450
564134.00    4151237.00        0.00759
         564234.00    4151237.00        0.00303
564284.00    4151237.00        0.00199
         564334.00    4151237.00        0.00140
564384.00    4151237.00        0.00103
         564434.00    4151237.00        0.00078
564484.00    4151237.00        0.00062
         564534.00    4151237.00        0.00049
564584.00    4151237.00        0.00041
         564634.00    4151237.00        0.00034
564684.00    4151237.00        0.00029
         563684.00    4151287.00        0.00017
563734.00    4151287.00        0.00021
         563784.00    4151287.00        0.00026
563834.00    4151287.00        0.00034
         563884.00    4151287.00        0.00045
563934.00    4151287.00        0.00062
         563984.00    4151287.00        0.00090
564034.00    4151287.00        0.00129
         564084.00    4151287.00        0.00167
564134.00    4151287.00        0.00156
         564184.00    4151287.00        0.00112
564234.00    4151287.00        0.00087
         564284.00    4151287.00        0.00074
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564334.00 4151287.00 0.00064

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564384.00	4151287.00	0.00056	564434.00	4151287.00	0.00048
564484.00	4151287.00	0.00041	564534.00	4151287.00	0.00035
564584.00	4151287.00	0.00030	564634.00	4151287.00	0.00026
564684.00	4151287.00	0.00023	563684.00	4151337.00	0.00015
563734.00	4151337.00	0.00018	563784.00	4151337.00	0.00022
563834.00	4151337.00	0.00028	563884.00	4151337.00	0.00036
563934.00	4151337.00	0.00047	563984.00	4151337.00	0.00061
564034.00	4151337.00	0.00073	564084.00	4151337.00	0.00075
564134.00	4151337.00	0.00066	564184.00	4151337.00	0.00054
564234.00	4151337.00	0.00044	564284.00	4151337.00	0.00036
564334.00	4151337.00	0.00032	564384.00	4151337.00	0.00029
564434.00	4151337.00	0.00027	564484.00	4151337.00	0.00025
564534.00	4151337.00	0.00023	564584.00	4151337.00	0.00021
564634.00	4151337.00	0.00019			

564684.00 4151337.00 0.00017
563684.00 4151387.00 0.00013
563734.00 4151387.00 0.00016
563784.00 4151387.00 0.00019
563834.00 4151387.00 0.00024
563884.00 4151387.00 0.00029
563934.00 4151387.00 0.00036
563984.00 4151387.00 0.00041
564034.00 4151387.00 0.00044
564084.00 4151387.00 0.00041
564134.00 4151387.00 0.00037
564184.00 4151387.00 0.00032
564234.00 4151387.00 0.00027
564284.00 4151387.00 0.00023
564334.00 4151387.00 0.00020
564384.00 4151387.00 0.00018
564434.00 4151387.00 0.00017
564484.00 4151387.00 0.00016
564534.00 4151387.00 0.00015
564584.00 4151387.00 0.00014
564634.00 4151387.00 0.00013
564684.00 4151387.00 0.00013
563684.00 4151437.00 0.00012
563734.00 4151437.00 0.00014
563784.00 4151437.00 0.00017
563834.00 4151437.00 0.00020
563884.00 4151437.00 0.00023
563934.00 4151437.00 0.00027
563984.00 4151437.00 0.00028
564034.00 4151437.00 0.00028
564084.00 4151437.00 0.00026
564134.00 4151437.00 0.00024
564184.00 4151437.00 0.00021
564234.00 4151437.00 0.00019
564284.00 4151437.00 0.00017
564334.00 4151437.00 0.00014
564384.00 4151437.00 0.00012
564434.00 4151437.00 0.00011
564484.00 4151437.00 0.00011
564534.00 4151437.00 0.00010
564584.00 4151437.00 0.00010
564634.00 4151437.00 0.00009
564684.00 4151437.00 0.00009
563684.00 4151487.00 0.00011
563734.00 4151487.00 0.00012
563784.00 4151487.00 0.00014
563834.00 4151487.00 0.00017
563884.00 4151487.00 0.00019
563934.00 4151487.00 0.00020
563984.00 4151487.00 0.00020
564034.00 4151487.00 0.00019
564084.00 4151487.00 0.00018

564134.00 4151487.00 0.00017

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564184.00	4151487.00	0.00015	564234.00	4151487.00	0.00014
564284.00	4151487.00	0.00013	564334.00	4151487.00	0.00011
564384.00	4151487.00	0.00010	564434.00	4151487.00	0.00009
564484.00	4151487.00	0.00008	564534.00	4151487.00	0.00007
564584.00	4151487.00	0.00007	564634.00	4151487.00	0.00007
564684.00	4151487.00	0.00007	563684.00	4151537.00	0.00010
563734.00	4151537.00	0.00011	563784.00	4151537.00	0.00012
563834.00	4151537.00	0.00014	563884.00	4151537.00	0.00015
563934.00	4151537.00	0.00015	563984.00	4151537.00	0.00015
564034.00	4151537.00	0.00014	564084.00	4151537.00	0.00013
564134.00	4151537.00	0.00012	564184.00	4151537.00	0.00012
564234.00	4151537.00	0.00011	564284.00	4151537.00	0.00010
564334.00	4151537.00	0.00009	564384.00	4151537.00	0.00008
564434.00	4151537.00	0.00007			

```
564484.00    4151537.00        0.00006
         564534.00    4151537.00        0.00006
564584.00    4151537.00        0.00005
         564634.00    4151537.00        0.00005
564684.00    4151537.00        0.00005
         563684.00    4151587.00        0.00009
563734.00    4151587.00        0.00010
         563784.00    4151587.00        0.00011
563834.00    4151587.00        0.00011
         563884.00    4151587.00        0.00012
563934.00    4151587.00        0.00011
         563984.00    4151587.00        0.00011
564034.00    4151587.00        0.00011
         564084.00    4151587.00        0.00010
564134.00    4151587.00        0.00010
         564184.00    4151587.00        0.00009
564234.00    4151587.00        0.00009
         564284.00    4151587.00        0.00008
564334.00    4151587.00        0.00007
         564384.00    4151587.00        0.00006
564434.00    4151587.00        0.00006
         564484.00    4151587.00        0.00005
564534.00    4151587.00        0.00005
         564584.00    4151587.00        0.00004
564634.00    4151587.00        0.00004
         564684.00    4151587.00        0.00004
563684.00    4151637.00        0.00008
         563734.00    4151637.00        0.00009
563784.00    4151637.00        0.00009
         563834.00    4151637.00        0.00009
563884.00    4151637.00        0.00009
         563934.00    4151637.00        0.00009
563984.00    4151637.00        0.00009
         564034.00    4151637.00        0.00008
564084.00    4151637.00        0.00008
         564134.00    4151637.00        0.00008
564184.00    4151637.00        0.00007
         564234.00    4151637.00        0.00007
564284.00    4151637.00        0.00007
         564334.00    4151637.00        0.00006
564384.00    4151637.00        0.00006
         564434.00    4151637.00        0.00005
564484.00    4151637.00        0.00005
         564534.00    4151637.00        0.00004
564584.00    4151637.00        0.00004
         564634.00    4151637.00        0.00003
564684.00    4151637.00        0.00003
         563684.00    4151687.00        0.00007
563734.00    4151687.00        0.00007
         563784.00    4151687.00        0.00008
563834.00    4151687.00        0.00008
         563884.00    4151687.00        0.00008
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563934.00 4151687.00 0.00007

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
563984.00	4151687.00	0.00007	564034.00	4151687.00	0.00007
564084.00	4151687.00	0.00007	564134.00	4151687.00	0.00006
564184.00	4151687.00	0.00006	564234.00	4151687.00	0.00006
564284.00	4151687.00	0.00005	564334.00	4151687.00	0.00005
564384.00	4151687.00	0.00005	564434.00	4151687.00	0.00004
564484.00	4151687.00	0.00004	564534.00	4151687.00	0.00004
564584.00	4151687.00	0.00003	564634.00	4151687.00	0.00003
564684.00	4151687.00	0.00003	564024.00	4150977.00	0.00104
564034.00	4150977.00	0.00109	564044.00	4150977.00	0.00116
564054.00	4150977.00	0.00122	564064.00	4150977.00	0.00130
564074.00	4150977.00	0.00138	564084.00	4150977.00	0.00147
564094.00	4150977.00	0.00157	564104.00	4150977.00	0.00168
564114.00	4150977.00	0.00181	564124.00	4150977.00	0.00195
564134.00	4150977.00	0.00211			

```
564144.00    4150977.00        0.00227
         564024.00    4150987.00        0.00112
564034.00    4150987.00        0.00119
         564044.00    4150987.00        0.00126
564054.00    4150987.00        0.00134
         564064.00    4150987.00        0.00143
564074.00    4150987.00        0.00152
         564084.00    4150987.00        0.00162
564094.00    4150987.00        0.00174
         564104.00    4150987.00        0.00187
564114.00    4150987.00        0.00202
         564124.00    4150987.00        0.00218
564134.00    4150987.00        0.00236
         564144.00    4150987.00        0.00255
564024.00    4150997.00        0.00122
         564034.00    4150997.00        0.00130
564044.00    4150997.00        0.00138
         564054.00    4150997.00        0.00148
564064.00    4150997.00        0.00157
         564074.00    4150997.00        0.00168
564084.00    4150997.00        0.00181
         564094.00    4150997.00        0.00194
564104.00    4150997.00        0.00209
         564114.00    4150997.00        0.00227
564124.00    4150997.00        0.00246
         564134.00    4150997.00        0.00267
564144.00    4150997.00        0.00289
         564024.00    4151007.00        0.00133
564034.00    4151007.00        0.00142
         564044.00    4151007.00        0.00152
564054.00    4151007.00        0.00163
         564064.00    4151007.00        0.00175
564074.00    4151007.00        0.00188
         564084.00    4151007.00        0.00202
564094.00    4151007.00        0.00218
         564104.00    4151007.00        0.00236
564114.00    4151007.00        0.00256
         564124.00    4151007.00        0.00279
564134.00    4151007.00        0.00304
         564144.00    4151007.00        0.00331
564024.00    4151017.00        0.00144
         564034.00    4151017.00        0.00155
564044.00    4151017.00        0.00167
         564054.00    4151017.00        0.00180
564064.00    4151017.00        0.00194
         564074.00    4151017.00        0.00210
564084.00    4151017.00        0.00227
         564094.00    4151017.00        0.00246
564104.00    4151017.00        0.00268
         564114.00    4151017.00        0.00292
564124.00    4151017.00        0.00320
         564134.00    4151017.00        0.00350
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564144.00 4151017.00 0.00382

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-B ***
INCLUDING SOURCE(S):
PAREA03 ,

*** 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
564024.00	4151027.00	0.00157	564034.00	4151027.00	0.00170
564044.00	4151027.00	0.00184	564054.00	4151027.00	0.00200
564064.00	4151027.00	0.00217	564074.00	4151027.00	0.00236
564084.00	4151027.00	0.00257	564094.00	4151027.00	0.00281
564104.00	4151027.00	0.00307	564114.00	4151027.00	0.00337
564124.00	4151027.00	0.00370	564134.00	4151027.00	0.00408
564144.00	4151027.00	0.00447	564024.00	4151037.00	0.00171
564034.00	4151037.00	0.00186	564044.00	4151037.00	0.00203
564054.00	4151037.00	0.00222	564064.00	4151037.00	0.00243
564074.00	4151037.00	0.00267	564084.00	4151037.00	0.00293
564094.00	4151037.00	0.00322	564104.00	4151037.00	0.00355
564114.00	4151037.00	0.00393	564124.00	4151037.00	0.00435
564134.00	4151037.00	0.00481	564144.00	4151037.00	0.00531
564024.00	4151047.00	0.00186			

564034.00 4151047.00 0.00204
564044.00 4151047.00 0.00224
564054.00 4151047.00 0.00247
564064.00 4151047.00 0.00273
564074.00 4151047.00 0.00303
564084.00 4151047.00 0.00336
564094.00 4151047.00 0.00373
564104.00 4151047.00 0.00416
564114.00 4151047.00 0.00463
564124.00 4151047.00 0.00517
564134.00 4151047.00 0.00577
564144.00 4151047.00 0.00640
564024.00 4151057.00 0.00201
564034.00 4151057.00 0.00223
564044.00 4151057.00 0.00247
564054.00 4151057.00 0.00275
564064.00 4151057.00 0.00307
564074.00 4151057.00 0.00344
564084.00 4151057.00 0.00386
564094.00 4151057.00 0.00435
564104.00 4151057.00 0.00491
564114.00 4151057.00 0.00554
564124.00 4151057.00 0.00626
564134.00 4151057.00 0.00705
564144.00 4151057.00 0.00788
564024.00 4151067.00 0.00218
564034.00 4151067.00 0.00243
564044.00 4151067.00 0.00272
564054.00 4151067.00 0.00306
564064.00 4151067.00 0.00345
564074.00 4151067.00 0.00391
564084.00 4151067.00 0.00446
564094.00 4151067.00 0.00510
564104.00 4151067.00 0.00586
564114.00 4151067.00 0.00672
564124.00 4151067.00 0.00771
564134.00 4151067.00 0.00880
564144.00 4151067.00 0.00993
564107.97 4151217.98 0.01037
564126.88 4151212.46 0.01561
564146.59 4151252.73 0.00370
564179.25 4151251.60 0.00281
564210.51 4151177.54 0.01848
564208.82 4151145.16 0.02307
564183.19 4151110.24 0.02490
564162.92 4151096.45 0.02168
564148.56 4151092.79 0.01959
564126.03 4151098.98 0.01611
564088.27 4151128.81 0.01094

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564114.01	4151261.20	0.00051	564135.61	4151266.04	0.00038
564119.54	4151293.69	0.00036	564130.77	4151312.01	0.00028
564163.09	4151305.62	0.00022	564177.44	4151299.74	0.00021
564196.97	4151291.79	0.00019	564210.10	4151280.21	0.00019
564220.30	4151264.14	0.00019	564227.90	4151247.38	0.00019
564238.45	4151230.27	0.00019	564240.80	4151212.56	0.00019
564248.22	4151198.20	0.00018	564256.35	4151175.24	0.00016
564269.75	4151162.08	0.00014	564286.49	4151151.08	0.00013
564308.10	4151135.11	0.00011	564329.77	4151126.39	0.00009
564243.38	4151128.82	0.00016	564191.23	4151093.66	0.00019
564176.16	4151074.52	0.00019	564232.45	4151110.30	0.00016

564235.20 4151074.64 0.00013
564247.20 4151064.67 0.00012
564261.03 4151054.91 0.00011
564279.33 4151048.00 0.00010
564092.05 4151261.51 0.00069
564077.80 4151271.65 0.00075
564075.89 4151298.68 0.00057
564092.20 4151320.13 0.00038
564079.00 4151329.27 0.00039
564064.02 4151340.14 0.00041
564053.40 4151343.64 0.00045
564038.54 4151353.00 0.00048
564026.30 4151362.62 0.00051
564014.58 4151371.30 0.00055
564004.15 4151384.96 0.00055
563986.52 4151397.01 0.00062
563975.05 4151409.36 0.00063
563812.99 4151377.74 0.00142
563786.51 4151378.74 0.00091
563747.29 4151364.63 0.00074
563732.55 4151348.64 0.00066
564252.63 4151299.36 0.00013
564270.08 4151278.80 0.00013
564280.78 4151263.04 0.00013
564299.64 4151254.31 0.00012
564320.76 4151241.36 0.00011
564338.49 4151199.69 0.00010
564223.05 4151086.47 0.00015
564223.05 4151100.23 0.00016
564207.53 4151007.19 0.00011
564220.50 4150997.85 0.00010
564231.22 4150986.27 0.00010
564270.64 4151004.25 0.00009
564293.29 4151001.31 0.00008
564316.46 4150997.68 0.00007
564190.93 4150987.82 0.00011
564158.55 4151084.80 0.00022
563684.00 4150687.00 0.00001
563734.00 4150687.00 0.00002
563784.00 4150687.00 0.00002
563834.00 4150687.00 0.00002
563884.00 4150687.00 0.00002
563934.00 4150687.00 0.00003
563984.00 4150687.00 0.00003
564034.00 4150687.00 0.00003
564084.00 4150687.00 0.00003
564134.00 4150687.00 0.00004
564184.00 4150687.00 0.00004
564234.00 4150687.00 0.00004
564284.00 4150687.00 0.00003
564334.00 4150687.00 0.00003
564384.00 4150687.00 0.00003

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         564434.00    4150687.00        0.00003
564484.00    4150687.00        0.00002
         564534.00    4150687.00        0.00002
564584.00    4150687.00        0.00002
         564634.00    4150687.00        0.00002
564684.00    4150687.00        0.00002
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
563684.00	4150737.00	0.00002	563734.00	4150737.00	0.00002
563784.00	4150737.00	0.00002	563834.00	4150737.00	0.00002
563884.00	4150737.00	0.00003	563934.00	4150737.00	0.00003
563984.00	4150737.00	0.00003	564034.00	4150737.00	0.00004
564084.00	4150737.00	0.00004	564134.00	4150737.00	0.00004
564184.00	4150737.00	0.00004	564234.00	4150737.00	0.00004
564284.00	4150737.00	0.00004	564334.00	4150737.00	0.00004
564384.00	4150737.00	0.00003	564434.00	4150737.00	0.00003
564484.00	4150737.00	0.00003	564534.00	4150737.00	0.00002
564584.00	4150737.00	0.00002	564634.00	4150737.00	0.00002
564684.00	4150737.00	0.00002	563684.00	4150787.00	0.00002

```
         563734.00    4150787.00        0.00002
563784.00    4150787.00        0.00002
         563834.00    4150787.00        0.00003
563884.00    4150787.00        0.00003
         563934.00    4150787.00        0.00004
563984.00    4150787.00        0.00004
         564034.00    4150787.00        0.00004
564084.00    4150787.00        0.00005
         564134.00    4150787.00        0.00005
564184.00    4150787.00        0.00005
         564234.00    4150787.00        0.00005
564284.00    4150787.00        0.00004
         564334.00    4150787.00        0.00004
564384.00    4150787.00        0.00004
         564434.00    4150787.00        0.00003
564484.00    4150787.00        0.00003
         564534.00    4150787.00        0.00003
564584.00    4150787.00        0.00002
         564634.00    4150787.00        0.00002
564684.00    4150787.00        0.00002
         563684.00    4150837.00        0.00002
563734.00    4150837.00        0.00002
         563784.00    4150837.00        0.00003
563834.00    4150837.00        0.00003
         563884.00    4150837.00        0.00004
563934.00    4150837.00        0.00004
         563984.00    4150837.00        0.00005
564034.00    4150837.00        0.00005
         564084.00    4150837.00        0.00006
564134.00    4150837.00        0.00006
         564184.00    4150837.00        0.00006
564234.00    4150837.00        0.00006
         564284.00    4150837.00        0.00005
564334.00    4150837.00        0.00004
         564384.00    4150837.00        0.00004
564434.00    4150837.00        0.00004
         564484.00    4150837.00        0.00003
564534.00    4150837.00        0.00003
         564584.00    4150837.00        0.00003
564634.00    4150837.00        0.00002
         564684.00    4150837.00        0.00002
563684.00    4150887.00        0.00003
         563734.00    4150887.00        0.00003
563784.00    4150887.00        0.00003
         563834.00    4150887.00        0.00004
563884.00    4150887.00        0.00005
         563934.00    4150887.00        0.00005
563984.00    4150887.00        0.00006
         564034.00    4150887.00        0.00007
564084.00    4150887.00        0.00007
         564134.00    4150887.00        0.00007
564184.00    4150887.00        0.00007
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         564234.00    4150887.00        0.00007
564284.00    4150887.00        0.00006
         564334.00    4150887.00        0.00005
564384.00    4150887.00        0.00005
         564434.00    4150887.00        0.00004
564484.00    4150887.00        0.00004
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564534.00	4150887.00	0.00003	564584.00	4150887.00	0.00003
564634.00	4150887.00	0.00003	564684.00	4150887.00	0.00002
563684.00	4150937.00	0.00003	563734.00	4150937.00	0.00004
563784.00	4150937.00	0.00004	563834.00	4150937.00	0.00005
563884.00	4150937.00	0.00006	563934.00	4150937.00	0.00007
563984.00	4150937.00	0.00008	564034.00	4150937.00	0.00009
564084.00	4150937.00	0.00009	564134.00	4150937.00	0.00010
564184.00	4150937.00	0.00009	564234.00	4150937.00	0.00008
564284.00	4150937.00	0.00007	564334.00	4150937.00	0.00006
564384.00	4150937.00	0.00005	564434.00	4150937.00	0.00004
564484.00	4150937.00	0.00004	564534.00	4150937.00	0.00003

```
         564584.00    4150937.00        0.00003
564634.00    4150937.00        0.00003
         564684.00    4150937.00        0.00002
563684.00    4150987.00        0.00004
         563734.00    4150987.00        0.00004
563784.00    4150987.00        0.00005
         563834.00    4150987.00        0.00006
563884.00    4150987.00        0.00008
         563934.00    4150987.00        0.00009
563984.00    4150987.00        0.00010
         564034.00    4150987.00        0.00011
564084.00    4150987.00        0.00013
         564134.00    4150987.00        0.00013
564184.00    4150987.00        0.00011
         564234.00    4150987.00        0.00010
564284.00    4150987.00        0.00008
         564334.00    4150987.00        0.00007
564384.00    4150987.00        0.00006
         564434.00    4150987.00        0.00005
564484.00    4150987.00        0.00004
         564534.00    4150987.00        0.00004
564584.00    4150987.00        0.00003
         564634.00    4150987.00        0.00003
564684.00    4150987.00        0.00003
         563684.00    4151037.00        0.00004
563734.00    4151037.00        0.00005
         563784.00    4151037.00        0.00007
563834.00    4151037.00        0.00008
         563884.00    4151037.00        0.00010
563934.00    4151037.00        0.00012
         563984.00    4151037.00        0.00014
564034.00    4151037.00        0.00016
         564084.00    4151037.00        0.00018
564134.00    4151037.00        0.00017
         564184.00    4151037.00        0.00015
564234.00    4151037.00        0.00012
         564284.00    4151037.00        0.00009
564334.00    4151037.00        0.00008
         564384.00    4151037.00        0.00006
564434.00    4151037.00        0.00005
         564484.00    4151037.00        0.00005
564534.00    4151037.00        0.00004
         564584.00    4151037.00        0.00003
564634.00    4151037.00        0.00003
         564684.00    4151037.00        0.00003
563684.00    4151087.00        0.00006
         563734.00    4151087.00        0.00007
563784.00    4151087.00        0.00009
         563834.00    4151087.00        0.00011
563884.00    4151087.00        0.00014
         563934.00    4151087.00        0.00017
563984.00    4151087.00        0.00021
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         564034.00    4151087.00        0.00025
564084.00    4151087.00        0.00028
         564134.00    4151087.00        0.00026
564184.00    4151087.00        0.00019
         564234.00    4151087.00        0.00014
564284.00    4151087.00        0.00011
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564334.00	4151087.00	0.00009	564384.00	4151087.00	0.00007
564434.00	4151087.00	0.00006	564484.00	4151087.00	0.00005
564534.00	4151087.00	0.00004	564584.00	4151087.00	0.00004
564634.00	4151087.00	0.00003	564684.00	4151087.00	0.00003
563684.00	4151137.00	0.00007	563734.00	4151137.00	0.00009
563784.00	4151137.00	0.00012	563834.00	4151137.00	0.00016
563884.00	4151137.00	0.00020	563934.00	4151137.00	0.00025
563984.00	4151137.00	0.00033	564034.00	4151137.00	0.00044
564084.00	4151137.00	0.00052	564234.00	4151137.00	0.00017
564284.00	4151137.00	0.00012	564334.00	4151137.00	0.00009
564384.00	4151137.00	0.00007	564434.00	4151137.00	0.00006

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         564484.00    4151137.00        0.00005
564534.00    4151137.00        0.00004
         564584.00    4151137.00        0.00004
564634.00    4151137.00        0.00003
         564684.00    4151137.00        0.00003
563684.00    4151187.00        0.00009
         563734.00    4151187.00        0.00012
563784.00    4151187.00        0.00017
         563834.00    4151187.00        0.00023
563884.00    4151187.00        0.00030
         563934.00    4151187.00        0.00040
563984.00    4151187.00        0.00061
         564034.00    4151187.00        0.00104
564084.00    4151187.00        0.00146
         564234.00    4151187.00        0.00020
564284.00    4151187.00        0.00014
         564334.00    4151187.00        0.00010
564384.00    4151187.00        0.00008
         564434.00    4151187.00        0.00006
564484.00    4151187.00        0.00005
         564534.00    4151187.00        0.00004
564584.00    4151187.00        0.00004
         564634.00    4151187.00        0.00003
564684.00    4151187.00        0.00003
         563684.00    4151237.00        0.00013
563734.00    4151237.00        0.00018
         563784.00    4151237.00        0.00028
563834.00    4151237.00        0.00038
         563884.00    4151237.00        0.00047
563934.00    4151237.00        0.00067
         563984.00    4151237.00        0.00124
564034.00    4151237.00        0.00211
         564084.00    4151237.00        0.00121
564134.00    4151237.00        0.00055
         564234.00    4151237.00        0.00019
564284.00    4151237.00        0.00013
         564334.00    4151237.00        0.00010
564384.00    4151237.00        0.00008
         564434.00    4151237.00        0.00006
564484.00    4151237.00        0.00005
         564534.00    4151237.00        0.00004
564584.00    4151237.00        0.00004
         564634.00    4151237.00        0.00003
564684.00    4151237.00        0.00003
         563684.00    4151287.00        0.00018
563734.00    4151287.00        0.00032
         563784.00    4151287.00        0.00058
563834.00    4151287.00        0.00071
         563884.00    4151287.00        0.00079
563934.00    4151287.00        0.00126
         563984.00    4151287.00        0.00237
564034.00    4151287.00        0.00134
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         564084.00    4151287.00        0.00058
564134.00    4151287.00        0.00033
         564184.00    4151287.00        0.00022
564234.00    4151287.00        0.00016
         564284.00    4151287.00        0.00012
564334.00    4151287.00        0.00009
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564384.00	4151287.00	0.00007	564434.00	4151287.00	0.00006
564484.00	4151287.00	0.00005	564534.00	4151287.00	0.00004
564584.00	4151287.00	0.00003	564634.00	4151287.00	0.00003
564684.00	4151287.00	0.00003	563684.00	4151337.00	0.00022
563734.00	4151337.00	0.00070	563784.00	4151337.00	0.00167
563834.00	4151337.00	0.00174	563884.00	4151337.00	0.00140
563934.00	4151337.00	0.00223	563984.00	4151337.00	0.00136
564034.00	4151337.00	0.00061	564084.00	4151337.00	0.00035
564134.00	4151337.00	0.00023	564184.00	4151337.00	0.00016
564234.00	4151337.00	0.00012	564284.00	4151337.00	0.00009
564334.00	4151337.00	0.00008	564384.00	4151337.00	0.00006

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         564434.00    4151337.00        0.00005
564484.00    4151337.00        0.00004
         564534.00    4151337.00        0.00004
564584.00    4151337.00        0.00003
         564634.00    4151337.00        0.00003
564684.00    4151337.00        0.00002
         563684.00    4151387.00        0.00018
563734.00    4151387.00        0.00038
         563784.00    4151387.00        0.00074
563834.00    4151387.00        0.00144
         563884.00    4151387.00        0.00225
563934.00    4151387.00        0.00171
         563984.00    4151387.00        0.00073
564034.00    4151387.00        0.00037
         564084.00    4151387.00        0.00023
564134.00    4151387.00        0.00016
         564184.00    4151387.00        0.00012
564234.00    4151387.00        0.00009
         564284.00    4151387.00        0.00007
564334.00    4151387.00        0.00006
         564384.00    4151387.00        0.00005
564434.00    4151387.00        0.00004
         564484.00    4151387.00        0.00004
564534.00    4151387.00        0.00003
         564584.00    4151387.00        0.00003
564634.00    4151387.00        0.00002
         564684.00    4151387.00        0.00002
563684.00    4151437.00        0.00013
         563734.00    4151437.00        0.00020
563784.00    4151437.00        0.00032
         563834.00    4151437.00        0.00065
563884.00    4151437.00        0.00086
         563934.00    4151437.00        0.00064
563984.00    4151437.00        0.00033
         564034.00    4151437.00        0.00020
564084.00    4151437.00        0.00014
         564134.00    4151437.00        0.00011
564184.00    4151437.00        0.00008
         564234.00    4151437.00        0.00007
564284.00    4151437.00        0.00005
         564334.00    4151437.00        0.00005
564384.00    4151437.00        0.00004
         564434.00    4151437.00        0.00003
564484.00    4151437.00        0.00003
         564534.00    4151437.00        0.00003
564584.00    4151437.00        0.00002
         564634.00    4151437.00        0.00002
564684.00    4151437.00        0.00002
         563684.00    4151487.00        0.00009
563734.00    4151487.00        0.00012
         563784.00    4151487.00        0.00016
563834.00    4151487.00        0.00020
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```
         563884.00    4151487.00        0.00017
563934.00    4151487.00        0.00013
         563984.00    4151487.00        0.00011
564034.00    4151487.00        0.00009
         564084.00    4151487.00        0.00008
564134.00    4151487.00        0.00006
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564184.00	4151487.00	0.00005	564234.00	4151487.00	0.00005
564284.00	4151487.00	0.00004	564334.00	4151487.00	0.00003
564384.00	4151487.00	0.00003	564434.00	4151487.00	0.00003
564484.00	4151487.00	0.00002	564534.00	4151487.00	0.00002
564584.00	4151487.00	0.00002	564634.00	4151487.00	0.00002
564684.00	4151487.00	0.00002	563684.00	4151537.00	0.00006
563734.00	4151537.00	0.00007	563784.00	4151537.00	0.00008
563834.00	4151537.00	0.00009	563884.00	4151537.00	0.00007
563934.00	4151537.00	0.00006	563984.00	4151537.00	0.00005
564034.00	4151537.00	0.00005	564084.00	4151537.00	0.00004
564134.00	4151537.00	0.00004	564184.00	4151537.00	0.00003

```
         564234.00    4151537.00        0.00003
564284.00    4151537.00        0.00003
         564334.00    4151537.00        0.00002
564384.00    4151537.00        0.00002
         564434.00    4151537.00        0.00002
564484.00    4151537.00        0.00002
         564534.00    4151537.00        0.00002
564584.00    4151537.00        0.00002
         564634.00    4151537.00        0.00001
564684.00    4151537.00        0.00001
         563684.00    4151587.00        0.00004
563734.00    4151587.00        0.00005
         563784.00    4151587.00        0.00005
563834.00    4151587.00        0.00005
         563884.00    4151587.00        0.00004
563934.00    4151587.00        0.00004
         563984.00    4151587.00        0.00003
564034.00    4151587.00        0.00003
         564084.00    4151587.00        0.00003
564134.00    4151587.00        0.00002
         564184.00    4151587.00        0.00002
564234.00    4151587.00        0.00002
         564284.00    4151587.00        0.00002
564334.00    4151587.00        0.00002
         564384.00    4151587.00        0.00002
564434.00    4151587.00        0.00001
         564484.00    4151587.00        0.00001
564534.00    4151587.00        0.00001
         564584.00    4151587.00        0.00001
564634.00    4151587.00        0.00001
         564684.00    4151587.00        0.00001
563684.00    4151637.00        0.00003
         563734.00    4151637.00        0.00003
563784.00    4151637.00        0.00003
         563834.00    4151637.00        0.00003
563884.00    4151637.00        0.00003
         563934.00    4151637.00        0.00003
563984.00    4151637.00        0.00002
         564034.00    4151637.00        0.00002
564084.00    4151637.00        0.00002
         564134.00    4151637.00        0.00002
564184.00    4151637.00        0.00002
         564234.00    4151637.00        0.00001
564284.00    4151637.00        0.00001
         564334.00    4151637.00        0.00001
564384.00    4151637.00        0.00001
         564434.00    4151637.00        0.00001
564484.00    4151637.00        0.00001
         564534.00    4151637.00        0.00001
564584.00    4151637.00        0.00001
         564634.00    4151637.00        0.00001
564684.00    4151637.00        0.00001
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```
         563684.00    4151687.00        0.00002
563734.00    4151687.00        0.00002
         563784.00    4151687.00        0.00002
563834.00    4151687.00        0.00002
         563884.00    4151687.00        0.00002
563934.00    4151687.00        0.00002
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
563984.00	4151687.00	0.00002	564034.00	4151687.00	0.00002
564084.00	4151687.00	0.00001	564134.00	4151687.00	0.00001
564184.00	4151687.00	0.00001	564234.00	4151687.00	0.00001
564284.00	4151687.00	0.00001	564334.00	4151687.00	0.00001
564384.00	4151687.00	0.00001	564434.00	4151687.00	0.00001
564484.00	4151687.00	0.00001	564534.00	4151687.00	0.00001
564584.00	4151687.00	0.00001	564634.00	4151687.00	0.00001
564684.00	4151687.00	0.00001	564024.00	4150977.00	0.00011
564034.00	4150977.00	0.00011	564044.00	4150977.00	0.00011
564054.00	4150977.00	0.00011	564064.00	4150977.00	0.00011
564074.00	4150977.00	0.00012	564084.00	4150977.00	0.00012

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         564094.00    4150977.00        0.00012
564104.00    4150977.00        0.00012
         564114.00    4150977.00        0.00012
564124.00    4150977.00        0.00012
         564134.00    4150977.00        0.00012
564144.00    4150977.00        0.00012
         564024.00    4150987.00        0.00011
564034.00    4150987.00        0.00011
         564044.00    4150987.00        0.00012
564054.00    4150987.00        0.00012
         564064.00    4150987.00        0.00012
564074.00    4150987.00        0.00012
         564084.00    4150987.00        0.00013
564094.00    4150987.00        0.00013
         564104.00    4150987.00        0.00013
564114.00    4150987.00        0.00013
         564124.00    4150987.00        0.00013
564134.00    4150987.00        0.00013
         564144.00    4150987.00        0.00012
564024.00    4150997.00        0.00012
         564034.00    4150997.00        0.00012
564044.00    4150997.00        0.00012
         564054.00    4150997.00        0.00013
564064.00    4150997.00        0.00013
         564074.00    4150997.00        0.00013
564084.00    4150997.00        0.00013
         564094.00    4150997.00        0.00013
564104.00    4150997.00        0.00013
         564114.00    4150997.00        0.00013
564124.00    4150997.00        0.00013
         564134.00    4150997.00        0.00013
564144.00    4150997.00        0.00013
         564024.00    4151007.00        0.00013
564034.00    4151007.00        0.00013
         564044.00    4151007.00        0.00013
564054.00    4151007.00        0.00014
         564064.00    4151007.00        0.00014
564074.00    4151007.00        0.00014
         564084.00    4151007.00        0.00014
564094.00    4151007.00        0.00014
         564104.00    4151007.00        0.00014
564114.00    4151007.00        0.00014
         564124.00    4151007.00        0.00014
564134.00    4151007.00        0.00014
         564144.00    4151007.00        0.00014
564024.00    4151017.00        0.00014
         564034.00    4151017.00        0.00014
564044.00    4151017.00        0.00014
         564054.00    4151017.00        0.00015
564064.00    4151017.00        0.00015
         564074.00    4151017.00        0.00015
564084.00    4151017.00        0.00015
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         564094.00    4151017.00        0.00015
564104.00    4151017.00        0.00015
         564114.00    4151017.00        0.00015
564124.00    4151017.00        0.00015
         564134.00    4151017.00        0.00015
564144.00    4151017.00        0.00015
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-R ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 ,

*** 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
564024.00	4151027.00	0.00015	564034.00	4151027.00	0.00015
564044.00	4151027.00	0.00015	564054.00	4151027.00	0.00016
564064.00	4151027.00	0.00016	564074.00	4151027.00	0.00016
564084.00	4151027.00	0.00016	564094.00	4151027.00	0.00017
564104.00	4151027.00	0.00017	564114.00	4151027.00	0.00017
564124.00	4151027.00	0.00016	564134.00	4151027.00	0.00016
564144.00	4151027.00	0.00016	564024.00	4151037.00	0.00016
564034.00	4151037.00	0.00016	564044.00	4151037.00	0.00017
564054.00	4151037.00	0.00017	564064.00	4151037.00	0.00017
564074.00	4151037.00	0.00018	564084.00	4151037.00	0.00018
564094.00	4151037.00	0.00018	564104.00	4151037.00	0.00018

```
         564114.00    4151037.00        0.00018
564124.00    4151037.00        0.00018
         564134.00    4151037.00        0.00017
564144.00    4151037.00        0.00017
         564024.00    4151047.00        0.00017
564034.00    4151047.00        0.00017
         564044.00    4151047.00        0.00018
564054.00    4151047.00        0.00018
         564064.00    4151047.00        0.00019
564074.00    4151047.00        0.00019
         564084.00    4151047.00        0.00019
564094.00    4151047.00        0.00019
         564104.00    4151047.00        0.00019
564114.00    4151047.00        0.00019
         564124.00    4151047.00        0.00019
564134.00    4151047.00        0.00019
         564144.00    4151047.00        0.00018
564024.00    4151057.00        0.00018
         564034.00    4151057.00        0.00019
564044.00    4151057.00        0.00019
         564054.00    4151057.00        0.00020
564064.00    4151057.00        0.00020
         564074.00    4151057.00        0.00021
564084.00    4151057.00        0.00021
         564094.00    4151057.00        0.00021
564104.00    4151057.00        0.00021
         564114.00    4151057.00        0.00021
564124.00    4151057.00        0.00020
         564134.00    4151057.00        0.00020
564144.00    4151057.00        0.00019
         564024.00    4151067.00        0.00020
564034.00    4151067.00        0.00020
         564044.00    4151067.00        0.00021
564054.00    4151067.00        0.00022
         564064.00    4151067.00        0.00022
564074.00    4151067.00        0.00023
         564084.00    4151067.00        0.00023
564094.00    4151067.00        0.00023
         564104.00    4151067.00        0.00023
564114.00    4151067.00        0.00023
         564124.00    4151067.00        0.00022
564134.00    4151067.00        0.00022
         564144.00    4151067.00        0.00021
564107.97    4151217.98        0.00115
         564126.88    4151212.46        0.00091
564146.59    4151252.73        0.00039
         564179.25    4151251.60        0.00029
564210.51    4151177.54        0.00024
         564208.82    4151145.16        0.00021
564183.19    4151110.24        0.00022
         564162.92    4151096.45        0.00024
564148.56    4151092.79        0.00025
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          564126.03    4151098.98        0.00030
564088.27    4151128.81        0.00046
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564114.01	4151261.20	0.00374	564135.61	4151266.04	0.00304
564119.54	4151293.69	0.00180	564130.77	4151312.01	0.00126
564163.09	4151305.62	0.00115	564177.44	4151299.74	0.00115
564196.97	4151291.79	0.00115	564210.10	4151280.21	0.00129
564220.30	4151264.14	0.00172	564227.90	4151247.38	0.00254
564238.45	4151230.27	0.00368	564240.80	4151212.56	0.00546
564248.22	4151198.20	0.00641	564256.35	4151175.24	0.00746
564269.75	4151162.08	0.00654	564286.49	4151151.08	0.00530
564308.10	4151135.11	0.00408	564329.77	4151126.39	0.00319
564243.38	4151128.82	0.01115	564191.23	4151093.66	0.02008
564176.16	4151074.52	0.01471			

564232.45   4151110.30   0.01265
         564235.20   4151074.64   0.00840
564247.20   4151064.67   0.00651
         564261.03   4151054.91   0.00511
564279.33   4151048.00   0.00402
         564092.05   4151261.51   0.00356
564077.80   4151271.65   0.00290
         564075.89   4151298.68   0.00191
564092.20   4151320.13   0.00133
         564079.00   4151329.27   0.00124
564064.02   4151340.14   0.00114
         564053.40   4151343.64   0.00115
564038.54   4151353.00   0.00110
         564026.30   4151362.62   0.00106
564014.58   4151371.30   0.00105
         564004.15   4151384.96   0.00098
563986.52   4151397.01   0.00100
         563975.05   4151409.36   0.00097
563812.99   4151377.74   0.00164
         563786.51   4151378.74   0.00111
563747.29   4151364.63   0.00092
         563732.55   4151348.64   0.00084
564252.63   4151299.36   0.00079
         564270.08   4151278.80   0.00103
564280.78   4151263.04   0.00132
         564299.64   4151254.31   0.00141
564320.76   4151241.36   0.00153
         564338.49   4151199.69   0.00219
564223.05   4151086.47   0.01153
         564223.05   4151100.23   0.01373
564207.53   4151007.19   0.00436
         564220.50   4150997.85   0.00380
564231.22   4150986.27   0.00326
         564270.64   4151004.25   0.00313
564293.29   4151001.31   0.00263
         564316.46   4150997.68   0.00219
564190.93   4150987.82   0.00340
         564158.55   4151084.80   0.01789
563684.00   4150687.00   0.00012
         563734.00   4150687.00   0.00013
563784.00   4150687.00   0.00015
         563834.00   4150687.00   0.00016
563884.00   4150687.00   0.00018
         563934.00   4150687.00   0.00020
563984.00   4150687.00   0.00022
         564034.00   4150687.00   0.00025
564084.00   4150687.00   0.00029
         564134.00   4150687.00   0.00034
564184.00   4150687.00   0.00040
         564234.00   4150687.00   0.00045
564284.00   4150687.00   0.00049
         564334.00   4150687.00   0.00049

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564384.00    4150687.00        0.00046
         564434.00    4150687.00        0.00042
564484.00    4150687.00        0.00038
         564534.00    4150687.00        0.00034
564584.00    4150687.00        0.00030
         564634.00    4150687.00        0.00028
564684.00    4150687.00        0.00025
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
563684.00	4150737.00	0.00013	563734.00	4150737.00	0.00015
563784.00	4150737.00	0.00017	563834.00	4150737.00	0.00019
563884.00	4150737.00	0.00021	563934.00	4150737.00	0.00024
563984.00	4150737.00	0.00027	564034.00	4150737.00	0.00030
564084.00	4150737.00	0.00036	564134.00	4150737.00	0.00043
564184.00	4150737.00	0.00051	564234.00	4150737.00	0.00057
564284.00	4150737.00	0.00061	564334.00	4150737.00	0.00059
564384.00	4150737.00	0.00054	564434.00	4150737.00	0.00049
564484.00	4150737.00	0.00043	564534.00	4150737.00	0.00038
564584.00	4150737.00	0.00034	564634.00	4150737.00	0.00030
564684.00	4150737.00	0.00027			

```
563684.00    4150787.00        0.00015
         563734.00    4150787.00        0.00017
563784.00    4150787.00        0.00020
         563834.00    4150787.00        0.00022
563884.00    4150787.00        0.00025
         563934.00    4150787.00        0.00029
563984.00    4150787.00        0.00033
         564034.00    4150787.00        0.00038
564084.00    4150787.00        0.00045
         564134.00    4150787.00        0.00055
564184.00    4150787.00        0.00066
         564234.00    4150787.00        0.00075
564284.00    4150787.00        0.00077
         564334.00    4150787.00        0.00073
564384.00    4150787.00        0.00065
         564434.00    4150787.00        0.00057
564484.00    4150787.00        0.00049
         564534.00    4150787.00        0.00043
564584.00    4150787.00        0.00038
         564634.00    4150787.00        0.00033
564684.00    4150787.00        0.00030
         563684.00    4150837.00        0.00017
563734.00    4150837.00        0.00019
         563784.00    4150837.00        0.00023
563834.00    4150837.00        0.00026
         563884.00    4150837.00        0.00031
563934.00    4150837.00        0.00036
         563984.00    4150837.00        0.00041
564034.00    4150837.00        0.00048
         564084.00    4150837.00        0.00058
564134.00    4150837.00        0.00073
         564184.00    4150837.00        0.00089
564234.00    4150837.00        0.00100
         564284.00    4150837.00        0.00100
564334.00    4150837.00        0.00091
         564384.00    4150837.00        0.00078
564434.00    4150837.00        0.00066
         564484.00    4150837.00        0.00057
564534.00    4150837.00        0.00049
         564584.00    4150837.00        0.00042
564634.00    4150837.00        0.00037
         564684.00    4150837.00        0.00032
563684.00    4150887.00        0.00018
         563734.00    4150887.00        0.00022
563784.00    4150887.00        0.00026
         563834.00    4150887.00        0.00031
563884.00    4150887.00        0.00038
         563934.00    4150887.00        0.00045
563984.00    4150887.00        0.00053
         564034.00    4150887.00        0.00064
564084.00    4150887.00        0.00079
         564134.00    4150887.00        0.00101
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564184.00    4150887.00        0.00127
         564234.00    4150887.00        0.00140
564284.00    4150887.00        0.00133
         564334.00    4150887.00        0.00114
564384.00    4150887.00        0.00094
         564434.00    4150887.00        0.00078
564484.00    4150887.00        0.00065
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564534.00	4150887.00	0.00055	564584.00	4150887.00	0.00046
564634.00	4150887.00	0.00040	564684.00	4150887.00	0.00034
563684.00	4150937.00	0.00020	563734.00	4150937.00	0.00024
563784.00	4150937.00	0.00030	563834.00	4150937.00	0.00037
563884.00	4150937.00	0.00046	563934.00	4150937.00	0.00058
563984.00	4150937.00	0.00072	564034.00	4150937.00	0.00089
564084.00	4150937.00	0.00112	564134.00	4150937.00	0.00150
564184.00	4150937.00	0.00194	564234.00	4150937.00	0.00207
564284.00	4150937.00	0.00182	564334.00	4150937.00	0.00145
564384.00	4150937.00	0.00114	564434.00	4150937.00	0.00091
564484.00	4150937.00	0.00074			

564534.00 4150937.00 0.00061
564584.00 4150937.00 0.00051
564634.00 4150937.00 0.00043
564684.00 4150937.00 0.00036
563684.00 4150987.00 0.00022
563734.00 4150987.00 0.00027
563784.00 4150987.00 0.00034
563834.00 4150987.00 0.00043
563884.00 4150987.00 0.00056
563934.00 4150987.00 0.00075
563984.00 4150987.00 0.00099
564034.00 4150987.00 0.00131
564084.00 4150987.00 0.00175
564134.00 4150987.00 0.00249
564184.00 4150987.00 0.00331
564234.00 4150987.00 0.00326
564284.00 4150987.00 0.00254
564334.00 4150987.00 0.00185
564384.00 4150987.00 0.00138
564434.00 4150987.00 0.00105
564484.00 4150987.00 0.00083
564534.00 4150987.00 0.00066
564584.00 4150987.00 0.00054
564634.00 4150987.00 0.00045
564684.00 4150987.00 0.00038
563684.00 4151037.00 0.00024
563734.00 4151037.00 0.00029
563784.00 4151037.00 0.00037
563834.00 4151037.00 0.00049
563884.00 4151037.00 0.00067
563934.00 4151037.00 0.00094
563984.00 4151037.00 0.00136
564034.00 4151037.00 0.00202
564084.00 4151037.00 0.00311
564134.00 4151037.00 0.00498
564184.00 4151037.00 0.00684
564234.00 4151037.00 0.00554
564284.00 4151037.00 0.00357
564334.00 4151037.00 0.00234
564384.00 4151037.00 0.00163
564434.00 4151037.00 0.00119
564484.00 4151037.00 0.00091
564534.00 4151037.00 0.00071
564584.00 4151037.00 0.00058
564634.00 4151037.00 0.00047
564684.00 4151037.00 0.00040
563684.00 4151087.00 0.00026
563734.00 4151087.00 0.00032
563784.00 4151087.00 0.00042
563834.00 4151087.00 0.00056
563884.00 4151087.00 0.00077
563934.00 4151087.00 0.00113

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563984.00    4151087.00        0.00179
         564034.00    4151087.00        0.00312
564084.00    4151087.00        0.00618
         564134.00    4151087.00        0.01460
564184.00    4151087.00        0.01870
         564234.00    4151087.00        0.00980
564284.00    4151087.00        0.00486
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564334.00	4151087.00	0.00284	564384.00	4151087.00	0.00185
564434.00	4151087.00	0.00130	564484.00	4151087.00	0.00097
564534.00	4151087.00	0.00075	564584.00	4151087.00	0.00059
564634.00	4151087.00	0.00048	564684.00	4151087.00	0.00040
563684.00	4151137.00	0.00028	563734.00	4151137.00	0.00035
563784.00	4151137.00	0.00046	563834.00	4151137.00	0.00062
563884.00	4151137.00	0.00087	563934.00	4151137.00	0.00130
563984.00	4151137.00	0.00215	564034.00	4151137.00	0.00432
564084.00	4151137.00	0.01159	564234.00	4151137.00	0.01376
564284.00	4151137.00	0.00561	564334.00	4151137.00	0.00304
564384.00	4151137.00	0.00192			

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564434.00    4151137.00        0.00132
         564484.00    4151137.00        0.00097
564534.00    4151137.00        0.00074
         564584.00    4151137.00        0.00058
564634.00    4151137.00        0.00047
         564684.00    4151137.00        0.00039
563684.00    4151187.00        0.00029
         563734.00    4151187.00        0.00038
563784.00    4151187.00        0.00050
         563834.00    4151187.00        0.00068
563884.00    4151187.00        0.00095
         563934.00    4151187.00        0.00140
563984.00    4151187.00        0.00233
         564034.00    4151187.00        0.00470
564084.00    4151187.00        0.01298
         564234.00    4151187.00        0.00988
564284.00    4151187.00        0.00441
         564334.00    4151187.00        0.00252
564384.00    4151187.00        0.00164
         564434.00    4151187.00        0.00116
564484.00    4151187.00        0.00086
         564534.00    4151187.00        0.00067
564584.00    4151187.00        0.00053
         564634.00    4151187.00        0.00043
564684.00    4151187.00        0.00036
         563684.00    4151237.00        0.00031
563734.00    4151237.00        0.00042
         563784.00    4151237.00        0.00058
563834.00    4151237.00        0.00078
         563884.00    4151237.00        0.00103
563934.00    4151237.00        0.00149
         563984.00    4151237.00        0.00255
564034.00    4151237.00        0.00443
         564084.00    4151237.00        0.00571
564134.00    4151237.00        0.00814
         564234.00    4151237.00        0.00322
564284.00    4151237.00        0.00212
         564334.00    4151237.00        0.00150
564384.00    4151237.00        0.00111
         564434.00    4151237.00        0.00085
564484.00    4151237.00        0.00067
         564534.00    4151237.00        0.00054
564584.00    4151237.00        0.00044
         564634.00    4151237.00        0.00037
564684.00    4151237.00        0.00031
         563684.00    4151287.00        0.00035
563734.00    4151287.00        0.00053
         563784.00    4151287.00        0.00084
563834.00    4151287.00        0.00105
         563884.00    4151287.00        0.00124
563934.00    4151287.00        0.00188
         563984.00    4151287.00        0.00327
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564034.00    4151287.00        0.00263
         564084.00    4151287.00        0.00225
564134.00    4151287.00        0.00189
         564184.00    4151287.00        0.00134
564234.00    4151287.00        0.00103
         564284.00    4151287.00        0.00086
564334.00    4151287.00        0.00073
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564384.00	4151287.00	0.00063	564434.00	4151287.00	0.00053
564484.00	4151287.00	0.00046	564534.00	4151287.00	0.00039
564584.00	4151287.00	0.00034	564634.00	4151287.00	0.00029
564684.00	4151287.00	0.00025	563684.00	4151337.00	0.00037
563734.00	4151337.00	0.00088	563784.00	4151337.00	0.00189
563834.00	4151337.00	0.00202	563884.00	4151337.00	0.00176
563934.00	4151337.00	0.00270	563984.00	4151337.00	0.00197
564034.00	4151337.00	0.00134	564084.00	4151337.00	0.00110
564134.00	4151337.00	0.00088	564184.00	4151337.00	0.00070
564234.00	4151337.00	0.00056	564284.00	4151337.00	0.00046
564334.00	4151337.00	0.00039			

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564384.00    4151337.00        0.00036
         564434.00    4151337.00        0.00032
564484.00    4151337.00        0.00029
         564534.00    4151337.00        0.00027
564584.00    4151337.00        0.00024
         564634.00    4151337.00        0.00022
564684.00    4151337.00        0.00020
         563684.00    4151387.00        0.00031
563734.00    4151387.00        0.00054
         563784.00    4151387.00        0.00093
563834.00    4151387.00        0.00168
         563884.00    4151387.00        0.00254
563934.00    4151387.00        0.00207
         563984.00    4151387.00        0.00115
564034.00    4151387.00        0.00081
         564084.00    4151387.00        0.00064
564134.00    4151387.00        0.00053
         564184.00    4151387.00        0.00044
564234.00    4151387.00        0.00037
         564284.00    4151387.00        0.00030
564334.00    4151387.00        0.00026
         564384.00    4151387.00        0.00023
564434.00    4151387.00        0.00021
         564484.00    4151387.00        0.00019
564534.00    4151387.00        0.00018
         564584.00    4151387.00        0.00017
564634.00    4151387.00        0.00016
         564684.00    4151387.00        0.00015
563684.00    4151437.00        0.00024
         563734.00    4151437.00        0.00034
563784.00    4151437.00        0.00049
         563834.00    4151437.00        0.00085
563884.00    4151437.00        0.00110
         563934.00    4151437.00        0.00090
563984.00    4151437.00        0.00061
         564034.00    4151437.00        0.00048
564084.00    4151437.00        0.00040
         564134.00    4151437.00        0.00034
564184.00    4151437.00        0.00030
         564234.00    4151437.00        0.00026
564284.00    4151437.00        0.00022
         564334.00    4151437.00        0.00019
564384.00    4151437.00        0.00016
         564434.00    4151437.00        0.00015
564484.00    4151437.00        0.00014
         564534.00    4151437.00        0.00013
564584.00    4151437.00        0.00012
         564634.00    4151437.00        0.00011
564684.00    4151437.00        0.00011
         563684.00    4151487.00        0.00019
563734.00    4151487.00        0.00024
         563784.00    4151487.00        0.00030
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563834.00    4151487.00        0.00036
         563884.00    4151487.00        0.00036
563934.00    4151487.00        0.00033
         563984.00    4151487.00        0.00031
564034.00    4151487.00        0.00028
         564084.00    4151487.00        0.00025
564134.00    4151487.00        0.00023
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564184.00	4151487.00	0.00021	564234.00	4151487.00	0.00019
564284.00	4151487.00	0.00016	564334.00	4151487.00	0.00014
564384.00	4151487.00	0.00013	564434.00	4151487.00	0.00011
564484.00	4151487.00	0.00010	564534.00	4151487.00	0.00009
564584.00	4151487.00	0.00009	564634.00	4151487.00	0.00009
564684.00	4151487.00	0.00008	563684.00	4151537.00	0.00016
563734.00	4151537.00	0.00018	563784.00	4151537.00	0.00021
563834.00	4151537.00	0.00022	563884.00	4151537.00	0.00022
563934.00	4151537.00	0.00021	563984.00	4151537.00	0.00020
564034.00	4151537.00	0.00018	564084.00	4151537.00	0.00017
564134.00	4151537.00	0.00016			

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564184.00    4151537.00        0.00015
         564234.00    4151537.00        0.00014
564284.00    4151537.00        0.00013
         564334.00    4151537.00        0.00011
564384.00    4151537.00        0.00010
         564434.00    4151537.00        0.00009
564484.00    4151537.00        0.00008
         564534.00    4151537.00        0.00007
564584.00    4151537.00        0.00007
         564634.00    4151537.00        0.00007
564684.00    4151537.00        0.00006
         563684.00    4151587.00        0.00013
563734.00    4151587.00        0.00015
         563784.00    4151587.00        0.00016
563834.00    4151587.00        0.00016
         563884.00    4151587.00        0.00016
563934.00    4151587.00        0.00015
         563984.00    4151587.00        0.00014
564034.00    4151587.00        0.00013
         564084.00    4151587.00        0.00013
564134.00    4151587.00        0.00012
         564184.00    4151587.00        0.00011
564234.00    4151587.00        0.00011
         564284.00    4151587.00        0.00010
564334.00    4151587.00        0.00009
         564384.00    4151587.00        0.00008
564434.00    4151587.00        0.00007
         564484.00    4151587.00        0.00007
564534.00    4151587.00        0.00006
         564584.00    4151587.00        0.00006
564634.00    4151587.00        0.00005
         564684.00    4151587.00        0.00005
563684.00    4151637.00        0.00011
         563734.00    4151637.00        0.00012
563784.00    4151637.00        0.00012
         563834.00    4151637.00        0.00012
563884.00    4151637.00        0.00012
         563934.00    4151637.00        0.00012
563984.00    4151637.00        0.00011
         564034.00    4151637.00        0.00010
564084.00    4151637.00        0.00010
         564134.00    4151637.00        0.00009
564184.00    4151637.00        0.00009
         564234.00    4151637.00        0.00008
564284.00    4151637.00        0.00008
         564334.00    4151637.00        0.00007
564384.00    4151637.00        0.00007
         564434.00    4151637.00        0.00006
564484.00    4151637.00        0.00006
         564534.00    4151637.00        0.00005
564584.00    4151637.00        0.00005
         564634.00    4151637.00        0.00004
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564684.00    4151637.00        0.00004
         563684.00    4151687.00        0.00009
563734.00    4151687.00        0.00010
         563784.00    4151687.00        0.00010
563834.00    4151687.00        0.00010
         563884.00    4151687.00        0.00010
563934.00    4151687.00        0.00009
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
563984.00	4151687.00	0.00009	564034.00	4151687.00	0.00008
564084.00	4151687.00	0.00008	564134.00	4151687.00	0.00008
564184.00	4151687.00	0.00007	564234.00	4151687.00	0.00007
564284.00	4151687.00	0.00006	564334.00	4151687.00	0.00006
564384.00	4151687.00	0.00006	564434.00	4151687.00	0.00005
564484.00	4151687.00	0.00005	564534.00	4151687.00	0.00004
564584.00	4151687.00	0.00004	564634.00	4151687.00	0.00004
564684.00	4151687.00	0.00004	564024.00	4150977.00	0.00114
564034.00	4150977.00	0.00120	564044.00	4150977.00	0.00127
564054.00	4150977.00	0.00134	564064.00	4150977.00	0.00141
564074.00	4150977.00	0.00149			

564084.00 4150977.00 0.00159
564094.00 4150977.00 0.00169
564104.00 4150977.00 0.00180
564114.00 4150977.00 0.00193
564124.00 4150977.00 0.00207
564134.00 4150977.00 0.00222
564144.00 4150977.00 0.00238
564024.00 4150987.00 0.00123
564034.00 4150987.00 0.00131
564044.00 4150987.00 0.00138
564054.00 4150987.00 0.00146
564064.00 4150987.00 0.00155
564074.00 4150987.00 0.00164
564084.00 4150987.00 0.00175
564094.00 4150987.00 0.00187
564104.00 4150987.00 0.00200
564114.00 4150987.00 0.00215
564124.00 4150987.00 0.00231
564134.00 4150987.00 0.00249
564144.00 4150987.00 0.00267
564024.00 4150997.00 0.00134
564034.00 4150997.00 0.00142
564044.00 4150997.00 0.00151
564054.00 4150997.00 0.00160
564064.00 4150997.00 0.00170
564074.00 4150997.00 0.00182
564084.00 4150997.00 0.00194
564094.00 4150997.00 0.00208
564104.00 4150997.00 0.00223
564114.00 4150997.00 0.00240
564124.00 4150997.00 0.00259
564134.00 4150997.00 0.00280
564144.00 4150997.00 0.00302
564024.00 4151007.00 0.00145
564034.00 4151007.00 0.00155
564044.00 4151007.00 0.00165
564054.00 4151007.00 0.00176
564064.00 4151007.00 0.00188
564074.00 4151007.00 0.00202
564084.00 4151007.00 0.00216
564094.00 4151007.00 0.00232
564104.00 4151007.00 0.00250
564114.00 4151007.00 0.00271
564124.00 4151007.00 0.00293
564134.00 4151007.00 0.00318
564144.00 4151007.00 0.00345
564024.00 4151017.00 0.00158
564034.00 4151017.00 0.00169
564044.00 4151017.00 0.00181
564054.00 4151017.00 0.00195
564064.00 4151017.00 0.00209
564074.00 4151017.00 0.00225

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564084.00    4151017.00        0.00242
         564094.00    4151017.00        0.00262
564104.00    4151017.00        0.00283
         564114.00    4151017.00        0.00308
564124.00    4151017.00        0.00335
         564134.00    4151017.00        0.00365
564144.00    4151017.00        0.00397
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_ON-A ***
INCLUDING SOURCE(S):
A0000001 , A0000002 , A0000003 , A0000004 , A0000005 ,
A0000006 , A0000007 , A0000008 , A0000009 , A0000010 , A0000011 , A0000012 , A0000013 ,
A0000014 , A0000015 , A0000016 , PAREA03 ,

*** 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
564024.00	4151027.00	0.00172	564034.00	4151027.00	0.00185
564044.00	4151027.00	0.00200	564054.00	4151027.00	0.00216
564064.00	4151027.00	0.00233	564074.00	4151027.00	0.00252
564084.00	4151027.00	0.00274	564094.00	4151027.00	0.00297
564104.00	4151027.00	0.00324	564114.00	4151027.00	0.00353
564124.00	4151027.00	0.00387	564134.00	4151027.00	0.00424
564144.00	4151027.00	0.00463	564024.00	4151037.00	0.00186
564034.00	4151037.00	0.00202	564044.00	4151037.00	0.00220
564054.00	4151037.00	0.00239	564064.00	4151037.00	0.00261
564074.00	4151037.00	0.00284	564084.00	4151037.00	0.00311
564094.00	4151037.00	0.00340			

564104.00 4151037.00 0.00373
564114.00 4151037.00 0.00410
564124.00 4151037.00 0.00452
564134.00 4151037.00 0.00498
564144.00 4151037.00 0.00547
564024.00 4151047.00 0.00202
564034.00 4151047.00 0.00221
564044.00 4151047.00 0.00242
564054.00 4151047.00 0.00266
564064.00 4151047.00 0.00292
564074.00 4151047.00 0.00322
564084.00 4151047.00 0.00355
564094.00 4151047.00 0.00393
564104.00 4151047.00 0.00435
564114.00 4151047.00 0.00483
564124.00 4151047.00 0.00536
564134.00 4151047.00 0.00595
564144.00 4151047.00 0.00658
564024.00 4151057.00 0.00220
564034.00 4151057.00 0.00242
564044.00 4151057.00 0.00267
564054.00 4151057.00 0.00295
564064.00 4151057.00 0.00327
564074.00 4151057.00 0.00364
564084.00 4151057.00 0.00407
564094.00 4151057.00 0.00456
564104.00 4151057.00 0.00512
564114.00 4151057.00 0.00575
564124.00 4151057.00 0.00646
564134.00 4151057.00 0.00725
564144.00 4151057.00 0.00808
564024.00 4151067.00 0.00238
564034.00 4151067.00 0.00264
564044.00 4151067.00 0.00293
564054.00 4151067.00 0.00327
564064.00 4151067.00 0.00367
564074.00 4151067.00 0.00413
564084.00 4151067.00 0.00469
564094.00 4151067.00 0.00533
564104.00 4151067.00 0.00609
564114.00 4151067.00 0.00695
564124.00 4151067.00 0.00793
564134.00 4151067.00 0.00901
564144.00 4151067.00 0.01014
564107.97 4151217.98 0.01152
564126.88 4151212.46 0.01652
564146.59 4151252.73 0.00409
564179.25 4151251.60 0.00310
564210.51 4151177.54 0.01871
564208.82 4151145.16 0.02329
564183.19 4151110.24 0.02512
564162.92 4151096.45 0.02191

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564148.56    4151092.79        0.01984
         564126.03    4151098.98        0.01641
564088.27    4151128.81        0.01140
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*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564114.01	4151261.20	0.00000	564135.61	4151266.04	0.00000
564119.54	4151293.69	0.00000	564130.77	4151312.01	0.00000
564163.09	4151305.62	0.00000	564177.44	4151299.74	0.00000
564196.97	4151291.79	0.00000	564210.10	4151280.21	0.00000
564220.30	4151264.14	0.00000	564227.90	4151247.38	0.00000
564238.45	4151230.27	0.00000	564240.80	4151212.56	0.00000
564248.22	4151198.20	0.00000	564256.35	4151175.24	0.00000
564269.75	4151162.08	0.00000	564286.49	4151151.08	0.00000
564308.10	4151135.11	0.00000	564329.77	4151126.39	0.00000
564243.38	4151128.82	0.00000	564191.23	4151093.66	0.00000
564176.16	4151074.52	0.00000			

564232.45   4151110.30   0.00000
         564235.20   4151074.64   0.00000
564247.20   4151064.67   0.00000
         564261.03   4151054.91   0.00000
564279.33   4151048.00   0.00000
         564092.05   4151261.51   0.00000
564077.80   4151271.65   0.00000
         564075.89   4151298.68   0.00000
564092.20   4151320.13   0.00000
         564079.00   4151329.27   0.00000
564064.02   4151340.14   0.00000
         564053.40   4151343.64   0.00000
564038.54   4151353.00   0.00000
         564026.30   4151362.62   0.00000
564014.58   4151371.30   0.00000
         564004.15   4151384.96   0.00000
563986.52   4151397.01   0.00000
         563975.05   4151409.36   0.00000
563812.99   4151377.74   0.00000
         563786.51   4151378.74   0.00000
563747.29   4151364.63   0.00000
         563732.55   4151348.64   0.00000
564252.63   4151299.36   0.00000
         564270.08   4151278.80   0.00000
564280.78   4151263.04   0.00000
         564299.64   4151254.31   0.00000
564320.76   4151241.36   0.00000
         564338.49   4151199.69   0.00000
564223.05   4151086.47   0.00000
         564223.05   4151100.23   0.00000
564207.53   4151007.19   0.00000
         564220.50   4150997.85   0.00000
564231.22   4150986.27   0.00000
         564270.64   4151004.25   0.00000
564293.29   4151001.31   0.00000
         564316.46   4150997.68   0.00000
564190.93   4150987.82   0.00000
         564158.55   4151084.80   0.00000
563684.00   4150687.00   0.00000
         563734.00   4150687.00   0.00000
563784.00   4150687.00   0.00000
         563834.00   4150687.00   0.00000
563884.00   4150687.00   0.00000
         563934.00   4150687.00   0.00000
563984.00   4150687.00   0.00000
         564034.00   4150687.00   0.00000
564084.00   4150687.00   0.00000
         564134.00   4150687.00   0.00000
564184.00   4150687.00   0.00000
         564234.00   4150687.00   0.00000
564284.00   4150687.00   0.00000
         564334.00   4150687.00   0.00000

```
564384.00    4150687.00        0.00000
         564434.00    4150687.00        0.00000
564484.00    4150687.00        0.00000
         564534.00    4150687.00        0.00000
564584.00    4150687.00        0.00000
         564634.00    4150687.00        0.00000
564684.00    4150687.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
563684.00	4150737.00	0.00000	563734.00	4150737.00	0.00000
563784.00	4150737.00	0.00000	563834.00	4150737.00	0.00000
563884.00	4150737.00	0.00000	563934.00	4150737.00	0.00000
563984.00	4150737.00	0.00000	564034.00	4150737.00	0.00000
564084.00	4150737.00	0.00000	564134.00	4150737.00	0.00000
564184.00	4150737.00	0.00000	564234.00	4150737.00	0.00000
564284.00	4150737.00	0.00000	564334.00	4150737.00	0.00000
564384.00	4150737.00	0.00000	564434.00	4150737.00	0.00000
564484.00	4150737.00	0.00000	564534.00	4150737.00	0.00000
564584.00	4150737.00	0.00000	564634.00	4150737.00	0.00000
564684.00	4150737.00	0.00000			

```
563684.00    4150787.00        0.00000
         563734.00    4150787.00        0.00000
563784.00    4150787.00        0.00000
         563834.00    4150787.00        0.00000
563884.00    4150787.00        0.00000
         563934.00    4150787.00        0.00000
563984.00    4150787.00        0.00000
         564034.00    4150787.00        0.00000
564084.00    4150787.00        0.00000
         564134.00    4150787.00        0.00000
564184.00    4150787.00        0.00000
         564234.00    4150787.00        0.00000
564284.00    4150787.00        0.00000
         564334.00    4150787.00        0.00000
564384.00    4150787.00        0.00000
         564434.00    4150787.00        0.00000
564484.00    4150787.00        0.00000
         564534.00    4150787.00        0.00000
564584.00    4150787.00        0.00000
         564634.00    4150787.00        0.00000
564684.00    4150787.00        0.00000
         563684.00    4150837.00        0.00000
563734.00    4150837.00        0.00000
         563784.00    4150837.00        0.00000
563834.00    4150837.00        0.00000
         563884.00    4150837.00        0.00000
563934.00    4150837.00        0.00000
         563984.00    4150837.00        0.00000
564034.00    4150837.00        0.00000
         564084.00    4150837.00        0.00000
564134.00    4150837.00        0.00000
         564184.00    4150837.00        0.00000
564234.00    4150837.00        0.00000
         564284.00    4150837.00        0.00000
564334.00    4150837.00        0.00000
         564384.00    4150837.00        0.00000
564434.00    4150837.00        0.00000
         564484.00    4150837.00        0.00000
564534.00    4150837.00        0.00000
         564584.00    4150837.00        0.00000
564634.00    4150837.00        0.00000
         564684.00    4150837.00        0.00000
563684.00    4150887.00        0.00000
         563734.00    4150887.00        0.00000
563784.00    4150887.00        0.00000
         563834.00    4150887.00        0.00000
563884.00    4150887.00        0.00000
         563934.00    4150887.00        0.00000
563984.00    4150887.00        0.00000
         564034.00    4150887.00        0.00000
564084.00    4150887.00        0.00000
         564134.00    4150887.00        0.00000
```

```
564184.00    4150887.00        0.00000
         564234.00    4150887.00        0.00000
564284.00    4150887.00        0.00000
         564334.00    4150887.00        0.00000
564384.00    4150887.00        0.00000
         564434.00    4150887.00        0.00000
564484.00    4150887.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564534.00	4150887.00	0.00000	564584.00	4150887.00	0.00000
564634.00	4150887.00	0.00000	564684.00	4150887.00	0.00000
563684.00	4150937.00	0.00000	563734.00	4150937.00	0.00000
563784.00	4150937.00	0.00000	563834.00	4150937.00	0.00000
563884.00	4150937.00	0.00000	563934.00	4150937.00	0.00000
563984.00	4150937.00	0.00000	564034.00	4150937.00	0.00000
564084.00	4150937.00	0.00000	564134.00	4150937.00	0.00000
564184.00	4150937.00	0.00000	564234.00	4150937.00	0.00000
564284.00	4150937.00	0.00000	564334.00	4150937.00	0.00000
564384.00	4150937.00	0.00000	564434.00	4150937.00	0.00000
564484.00	4150937.00	0.00000			

564534.00 4150937.00 0.00000
564584.00 4150937.00 0.00000
564634.00 4150937.00 0.00000
564684.00 4150937.00 0.00000
563684.00 4150987.00 0.00000
563734.00 4150987.00 0.00000
563784.00 4150987.00 0.00000
563834.00 4150987.00 0.00000
563884.00 4150987.00 0.00000
563934.00 4150987.00 0.00000
563984.00 4150987.00 0.00000
564034.00 4150987.00 0.00000
564084.00 4150987.00 0.00000
564134.00 4150987.00 0.00000
564184.00 4150987.00 0.00000
564234.00 4150987.00 0.00000
564284.00 4150987.00 0.00000
564334.00 4150987.00 0.00000
564384.00 4150987.00 0.00000
564434.00 4150987.00 0.00000
564484.00 4150987.00 0.00000
564534.00 4150987.00 0.00000
564584.00 4150987.00 0.00000
564634.00 4150987.00 0.00000
564684.00 4150987.00 0.00000
563684.00 4151037.00 0.00000
563734.00 4151037.00 0.00000
563784.00 4151037.00 0.00000
563834.00 4151037.00 0.00000
563884.00 4151037.00 0.00000
563934.00 4151037.00 0.00000
563984.00 4151037.00 0.00000
564034.00 4151037.00 0.00000
564084.00 4151037.00 0.00000
564134.00 4151037.00 0.00000
564184.00 4151037.00 0.00000
564234.00 4151037.00 0.00000
564284.00 4151037.00 0.00000
564334.00 4151037.00 0.00000
564384.00 4151037.00 0.00000
564434.00 4151037.00 0.00000
564484.00 4151037.00 0.00000
564534.00 4151037.00 0.00000
564584.00 4151037.00 0.00000
564634.00 4151037.00 0.00000
564684.00 4151037.00 0.00000
563684.00 4151087.00 0.00000
563734.00 4151087.00 0.00000
563784.00 4151087.00 0.00000
563834.00 4151087.00 0.00000
563884.00 4151087.00 0.00000
563934.00 4151087.00 0.00000

```
563984.00    4151087.00        0.00000
         564034.00    4151087.00        0.00000
564084.00    4151087.00        0.00000
         564134.00    4151087.00        0.00000
564184.00    4151087.00        0.00000
         564234.00    4151087.00        0.00000
564284.00    4151087.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564334.00	4151087.00	0.00000	564384.00	4151087.00	0.00000
564434.00	4151087.00	0.00000	564484.00	4151087.00	0.00000
564534.00	4151087.00	0.00000	564584.00	4151087.00	0.00000
564634.00	4151087.00	0.00000	564684.00	4151087.00	0.00000
563684.00	4151137.00	0.00000	563734.00	4151137.00	0.00000
563784.00	4151137.00	0.00000	563834.00	4151137.00	0.00000
563884.00	4151137.00	0.00000	563934.00	4151137.00	0.00000
563984.00	4151137.00	0.00000	564034.00	4151137.00	0.00000
564084.00	4151137.00	0.00000	564234.00	4151137.00	0.00000
564284.00	4151137.00	0.00000	564334.00	4151137.00	0.00000
564384.00	4151137.00	0.00000			

564434.00   4151137.00   0.00000
         564484.00   4151137.00   0.00000
564534.00   4151137.00   0.00000
         564584.00   4151137.00   0.00000
564634.00   4151137.00   0.00000
         564684.00   4151137.00   0.00000
563684.00   4151187.00   0.00000
         563734.00   4151187.00   0.00000
563784.00   4151187.00   0.00000
         563834.00   4151187.00   0.00000
563884.00   4151187.00   0.00000
         563934.00   4151187.00   0.00000
563984.00   4151187.00   0.00000
         564034.00   4151187.00   0.00000
564084.00   4151187.00   0.00000
         564234.00   4151187.00   0.00000
564284.00   4151187.00   0.00000
         564334.00   4151187.00   0.00000
564384.00   4151187.00   0.00000
         564434.00   4151187.00   0.00000
564484.00   4151187.00   0.00000
         564534.00   4151187.00   0.00000
564584.00   4151187.00   0.00000
         564634.00   4151187.00   0.00000
564684.00   4151187.00   0.00000
         563684.00   4151237.00   0.00000
563734.00   4151237.00   0.00000
         563784.00   4151237.00   0.00000
563834.00   4151237.00   0.00000
         563884.00   4151237.00   0.00000
563934.00   4151237.00   0.00000
         563984.00   4151237.00   0.00000
564034.00   4151237.00   0.00000
         564084.00   4151237.00   0.00000
564134.00   4151237.00   0.00000
         564234.00   4151237.00   0.00000
564284.00   4151237.00   0.00000
         564334.00   4151237.00   0.00000
564384.00   4151237.00   0.00000
         564434.00   4151237.00   0.00000
564484.00   4151237.00   0.00000
         564534.00   4151237.00   0.00000
564584.00   4151237.00   0.00000
         564634.00   4151237.00   0.00000
564684.00   4151237.00   0.00000
         563684.00   4151287.00   0.00000
563734.00   4151287.00   0.00000
         563784.00   4151287.00   0.00000
563834.00   4151287.00   0.00000
         563884.00   4151287.00   0.00000
563934.00   4151287.00   0.00000
         563984.00   4151287.00   0.00000

```
564034.00    4151287.00        0.00000
         564084.00    4151287.00        0.00000
564134.00    4151287.00        0.00000
         564184.00    4151287.00        0.00000
564234.00    4151287.00        0.00000
         564284.00    4151287.00        0.00000
564334.00    4151287.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564384.00	4151287.00	0.00000	564434.00	4151287.00	0.00000
564484.00	4151287.00	0.00000	564534.00	4151287.00	0.00000
564584.00	4151287.00	0.00000	564634.00	4151287.00	0.00000
564684.00	4151287.00	0.00000	563684.00	4151337.00	0.00000
563734.00	4151337.00	0.00000	563784.00	4151337.00	0.00000
563834.00	4151337.00	0.00000	563884.00	4151337.00	0.00000
563934.00	4151337.00	0.00000	563984.00	4151337.00	0.00000
564034.00	4151337.00	0.00000	564084.00	4151337.00	0.00000
564134.00	4151337.00	0.00000	564184.00	4151337.00	0.00000
564234.00	4151337.00	0.00000	564284.00	4151337.00	0.00000
564334.00	4151337.00	0.00000			

```
564384.00    4151337.00        0.00000
         564434.00    4151337.00        0.00000
564484.00    4151337.00        0.00000
         564534.00    4151337.00        0.00000
564584.00    4151337.00        0.00000
         564634.00    4151337.00        0.00000
564684.00    4151337.00        0.00000
         563684.00    4151387.00        0.00000
563734.00    4151387.00        0.00000
         563784.00    4151387.00        0.00000
563834.00    4151387.00        0.00000
         563884.00    4151387.00        0.00000
563934.00    4151387.00        0.00000
         563984.00    4151387.00        0.00000
564034.00    4151387.00        0.00000
         564084.00    4151387.00        0.00000
564134.00    4151387.00        0.00000
         564184.00    4151387.00        0.00000
564234.00    4151387.00        0.00000
         564284.00    4151387.00        0.00000
564334.00    4151387.00        0.00000
         564384.00    4151387.00        0.00000
564434.00    4151387.00        0.00000
         564484.00    4151387.00        0.00000
564534.00    4151387.00        0.00000
         564584.00    4151387.00        0.00000
564634.00    4151387.00        0.00000
         564684.00    4151387.00        0.00000
563684.00    4151437.00        0.00000
         563734.00    4151437.00        0.00000
563784.00    4151437.00        0.00000
         563834.00    4151437.00        0.00000
563884.00    4151437.00        0.00000
         563934.00    4151437.00        0.00000
563984.00    4151437.00        0.00000
         564034.00    4151437.00        0.00000
564084.00    4151437.00        0.00000
         564134.00    4151437.00        0.00000
564184.00    4151437.00        0.00000
         564234.00    4151437.00        0.00000
564284.00    4151437.00        0.00000
         564334.00    4151437.00        0.00000
564384.00    4151437.00        0.00000
         564434.00    4151437.00        0.00000
564484.00    4151437.00        0.00000
         564534.00    4151437.00        0.00000
564584.00    4151437.00        0.00000
         564634.00    4151437.00        0.00000
564684.00    4151437.00        0.00000
         563684.00    4151487.00        0.00000
563734.00    4151487.00        0.00000
         563784.00    4151487.00        0.00000
```

```
563834.00    4151487.00        0.00000
         563884.00    4151487.00        0.00000
563934.00    4151487.00        0.00000
         563984.00    4151487.00        0.00000
564034.00    4151487.00        0.00000
         564084.00    4151487.00        0.00000
564134.00    4151487.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564184.00	4151487.00	0.00000	564234.00	4151487.00	0.00000
564284.00	4151487.00	0.00000	564334.00	4151487.00	0.00000
564384.00	4151487.00	0.00000	564434.00	4151487.00	0.00000
564484.00	4151487.00	0.00000	564534.00	4151487.00	0.00000
564584.00	4151487.00	0.00000	564634.00	4151487.00	0.00000
564684.00	4151487.00	0.00000	563684.00	4151537.00	0.00000
563734.00	4151537.00	0.00000	563784.00	4151537.00	0.00000
563834.00	4151537.00	0.00000	563884.00	4151537.00	0.00000
563934.00	4151537.00	0.00000	563984.00	4151537.00	0.00000
564034.00	4151537.00	0.00000	564084.00	4151537.00	0.00000
564134.00	4151537.00	0.00000			

564184.00 4151537.00 0.00000
564234.00 4151537.00 0.00000
564284.00 4151537.00 0.00000
564334.00 4151537.00 0.00000
564384.00 4151537.00 0.00000
564434.00 4151537.00 0.00000
564484.00 4151537.00 0.00000
564534.00 4151537.00 0.00000
564584.00 4151537.00 0.00000
564634.00 4151537.00 0.00000
564684.00 4151537.00 0.00000
563684.00 4151587.00 0.00000
563734.00 4151587.00 0.00000
563784.00 4151587.00 0.00000
563834.00 4151587.00 0.00000
563884.00 4151587.00 0.00000
563934.00 4151587.00 0.00000
563984.00 4151587.00 0.00000
564034.00 4151587.00 0.00000
564084.00 4151587.00 0.00000
564134.00 4151587.00 0.00000
564184.00 4151587.00 0.00000
564234.00 4151587.00 0.00000
564284.00 4151587.00 0.00000
564334.00 4151587.00 0.00000
564384.00 4151587.00 0.00000
564434.00 4151587.00 0.00000
564484.00 4151587.00 0.00000
564534.00 4151587.00 0.00000
564584.00 4151587.00 0.00000
564634.00 4151587.00 0.00000
564684.00 4151587.00 0.00000
563684.00 4151637.00 0.00000
563734.00 4151637.00 0.00000
563784.00 4151637.00 0.00000
563834.00 4151637.00 0.00000
563884.00 4151637.00 0.00000
563934.00 4151637.00 0.00000
563984.00 4151637.00 0.00000
564034.00 4151637.00 0.00000
564084.00 4151637.00 0.00000
564134.00 4151637.00 0.00000
564184.00 4151637.00 0.00000
564234.00 4151637.00 0.00000
564284.00 4151637.00 0.00000
564334.00 4151637.00 0.00000
564384.00 4151637.00 0.00000
564434.00 4151637.00 0.00000
564484.00 4151637.00 0.00000
564534.00 4151637.00 0.00000
564584.00 4151637.00 0.00000
564634.00 4151637.00 0.00000

```
564684.00    4151637.00        0.00000
         563684.00    4151687.00        0.00000
563734.00    4151687.00        0.00000
         563784.00    4151687.00        0.00000
563834.00    4151687.00        0.00000
         563884.00    4151687.00        0.00000
563934.00    4151687.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
563984.00	4151687.00	0.00000	564034.00	4151687.00	0.00000
564084.00	4151687.00	0.00000	564134.00	4151687.00	0.00000
564184.00	4151687.00	0.00000	564234.00	4151687.00	0.00000
564284.00	4151687.00	0.00000	564334.00	4151687.00	0.00000
564384.00	4151687.00	0.00000	564434.00	4151687.00	0.00000
564484.00	4151687.00	0.00000	564534.00	4151687.00	0.00000
564584.00	4151687.00	0.00000	564634.00	4151687.00	0.00000
564684.00	4151687.00	0.00000	564024.00	4150977.00	0.00000
564034.00	4150977.00	0.00000	564044.00	4150977.00	0.00000
564054.00	4150977.00	0.00000	564064.00	4150977.00	0.00000
564074.00	4150977.00	0.00000			

564084.00 4150977.00 0.00000
564094.00 4150977.00 0.00000
564104.00 4150977.00 0.00000
564114.00 4150977.00 0.00000
564124.00 4150977.00 0.00000
564134.00 4150977.00 0.00000
564144.00 4150977.00 0.00000
564024.00 4150987.00 0.00000
564034.00 4150987.00 0.00000
564044.00 4150987.00 0.00000
564054.00 4150987.00 0.00000
564064.00 4150987.00 0.00000
564074.00 4150987.00 0.00000
564084.00 4150987.00 0.00000
564094.00 4150987.00 0.00000
564104.00 4150987.00 0.00000
564114.00 4150987.00 0.00000
564124.00 4150987.00 0.00000
564134.00 4150987.00 0.00000
564144.00 4150987.00 0.00000
564024.00 4150997.00 0.00000
564034.00 4150997.00 0.00000
564044.00 4150997.00 0.00000
564054.00 4150997.00 0.00000
564064.00 4150997.00 0.00000
564074.00 4150997.00 0.00000
564084.00 4150997.00 0.00000
564094.00 4150997.00 0.00000
564104.00 4150997.00 0.00000
564114.00 4150997.00 0.00000
564124.00 4150997.00 0.00000
564134.00 4150997.00 0.00000
564144.00 4150997.00 0.00000
564024.00 4151007.00 0.00000
564034.00 4151007.00 0.00000
564044.00 4151007.00 0.00000
564054.00 4151007.00 0.00000
564064.00 4151007.00 0.00000
564074.00 4151007.00 0.00000
564084.00 4151007.00 0.00000
564094.00 4151007.00 0.00000
564104.00 4151007.00 0.00000
564114.00 4151007.00 0.00000
564124.00 4151007.00 0.00000
564134.00 4151007.00 0.00000
564144.00 4151007.00 0.00000
564024.00 4151017.00 0.00000
564034.00 4151017.00 0.00000
564044.00 4151017.00 0.00000
564054.00 4151017.00 0.00000
564064.00 4151017.00 0.00000
564074.00 4151017.00 0.00000

```
564084.00    4151017.00        0.00000
         564094.00    4151017.00        0.00000
564104.00    4151017.00        0.00000
         564114.00    4151017.00        0.00000
564124.00    4151017.00        0.00000
         564134.00    4151017.00        0.00000
564144.00    4151017.00        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: Y2_OFF ***
INCLUDING SOURCE(S):
A0000037 , A0000038 , A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 , A0000046 , A0000047 , A0000048 , A0000049 ,
A0000050 , A0000051 , A0000052 , A0000053 , A0000054 , A0000055 , A0000056 ,

*** 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
564024.00	4151027.00	0.00000	564034.00	4151027.00	0.00000
564044.00	4151027.00	0.00000	564054.00	4151027.00	0.00000
564064.00	4151027.00	0.00000	564074.00	4151027.00	0.00000
564084.00	4151027.00	0.00000	564094.00	4151027.00	0.00000
564104.00	4151027.00	0.00000	564114.00	4151027.00	0.00000
564124.00	4151027.00	0.00000	564134.00	4151027.00	0.00000
564144.00	4151027.00	0.00000	564024.00	4151037.00	0.00000
564034.00	4151037.00	0.00000	564044.00	4151037.00	0.00000
564054.00	4151037.00	0.00000	564064.00	4151037.00	0.00000
564074.00	4151037.00	0.00000	564084.00	4151037.00	0.00000
564094.00	4151037.00	0.00000			

```
564104.00    4151037.00        0.00000
         564114.00    4151037.00        0.00000
564124.00    4151037.00        0.00000
         564134.00    4151037.00        0.00000
564144.00    4151037.00        0.00000
         564024.00    4151047.00        0.00000
564034.00    4151047.00        0.00000
         564044.00    4151047.00        0.00000
564054.00    4151047.00        0.00000
         564064.00    4151047.00        0.00000
564074.00    4151047.00        0.00000
         564084.00    4151047.00        0.00000
564094.00    4151047.00        0.00000
         564104.00    4151047.00        0.00000
564114.00    4151047.00        0.00000
         564124.00    4151047.00        0.00000
564134.00    4151047.00        0.00000
         564144.00    4151047.00        0.00000
564024.00    4151057.00        0.00000
         564034.00    4151057.00        0.00000
564044.00    4151057.00        0.00000
         564054.00    4151057.00        0.00000
564064.00    4151057.00        0.00000
         564074.00    4151057.00        0.00000
564084.00    4151057.00        0.00000
         564094.00    4151057.00        0.00000
564104.00    4151057.00        0.00000
         564114.00    4151057.00        0.00000
564124.00    4151057.00        0.00000
         564134.00    4151057.00        0.00000
564144.00    4151057.00        0.00000
         564024.00    4151067.00        0.00000
564034.00    4151067.00        0.00000
         564044.00    4151067.00        0.00000
564054.00    4151067.00        0.00000
         564064.00    4151067.00        0.00000
564074.00    4151067.00        0.00000
         564084.00    4151067.00        0.00000
564094.00    4151067.00        0.00000
         564104.00    4151067.00        0.00000
564114.00    4151067.00        0.00000
         564124.00    4151067.00        0.00000
564134.00    4151067.00        0.00000
         564144.00    4151067.00        0.00000
564107.97    4151217.98        0.00000
         564126.88    4151212.46        0.00000
564146.59    4151252.73        0.00000
         564179.25    4151251.60        0.00000
564210.51    4151177.54        0.00000
         564208.82    4151145.16        0.00000
564183.19    4151110.24        0.00000
         564162.92    4151096.45        0.00000
```

```
564148.56    4151092.79        0.00000
         564126.03    4151098.98        0.00000
564088.27    4151128.81        0.00000
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
Y1_ALL	1ST HIGHEST VALUE IS	0.03838 AT (564183.19, 4151110.24, 1.00, 1.00, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.03506 AT (564162.92, 4151096.45, 1.00, 1.00, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.03454 AT (564208.82, 4151145.16, 1.00, 1.00, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.03267 AT (564148.56, 4151092.79, 1.00, 1.00, 1.50)	DC	
	5TH HIGHEST VALUE IS	0.03054 AT (564126.03, 4151098.98, 1.00, 1.00, 1.50)	DC	
	6TH HIGHEST VALUE IS	0.02996 AT (564191.23, 4151093.66, 1.00, 1.00, 1.50)	DC	
	7TH HIGHEST VALUE IS	0.02910 AT (564158.55, 4151084.80, 1.00, 1.00, 1.50)	DC	
	8TH HIGHEST VALUE IS	0.02832 AT (564184.00, 4151087.00, 1.00, 1.00, 1.50)	DC	
	9TH HIGHEST VALUE IS	0.02779 AT (564210.51, 4151177.54, 1.00, 1.00, 1.50)	DC	
	10TH HIGHEST VALUE IS	0.02664 AT (564134.00, 4151087.00, 1.00, 1.00, 1.50)	DC	
Y1_ON	1ST HIGHEST VALUE IS	0.03837 AT (564183.19, 4151110.24, 1.00, 1.00, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.03504 AT (564162.92, 4151096.45, 1.00, 1.00, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.03454 AT (564208.82, 4151145.16, 1.00, 1.00, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.03264 AT (564148.56,		

```
4151092.79,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.03051 AT (  564126.03,
4151098.98,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.02995 AT (  564191.23,
4151093.66,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.02907 AT (  564158.55,
4151084.80,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.02831 AT (  564184.00,
4151087.00,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.02779 AT (  564210.51,
4151177.54,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.02661 AT (  564134.00,
4151087.00,     1.00,     1.00,    1.50)  DC

Y1_OFF    1ST HIGHEST VALUE IS       0.00006 AT (  564334.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          2ND HIGHEST VALUE IS       0.00006 AT (  564384.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          3RD HIGHEST VALUE IS       0.00005 AT (  564234.00,
4150987.00,     1.00,     1.00,    1.50)  DC
          4TH HIGHEST VALUE IS       0.00005 AT (  564434.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.00005 AT (  564220.50,
4150997.85,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.00005 AT (  564207.53,
4151007.19,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.00005 AT (  564231.22,
4150986.27,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.00005 AT (  564184.00,
4151037.00,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.00005 AT (  564144.00,
4151067.00,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.00005 AT (  564144.00,
4151057.00,     1.00,     1.00,    1.50)  DC

Y2_ALL    1ST HIGHEST VALUE IS       0.02512 AT (  564183.19,
4151110.24,     1.00,     1.00,    1.50)  DC
          2ND HIGHEST VALUE IS       0.02329 AT (  564208.82,
4151145.16,     1.00,     1.00,    1.50)  DC
          3RD HIGHEST VALUE IS       0.02191 AT (  564162.92,
4151096.45,     1.00,     1.00,    1.50)  DC
          4TH HIGHEST VALUE IS       0.02008 AT (  564191.23,
4151093.66,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.01984 AT (  564148.56,
4151092.79,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.01871 AT (  564210.51,
4151177.54,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.01870 AT (  564184.00,
4151087.00,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.01789 AT (  564158.55,
4151084.80,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.01652 AT (  564126.88,
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4151212.46,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.01641 AT (  564126.03,
4151098.98,     1.00,     1.00,    1.50)  DC
```

*** MODELOPTs: NonDFAULT CONC FLAT FLGPOL URBAN SigA Data

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
Y2_ON-B	1ST HIGHEST VALUE IS	0.02490 AT (564183.19, 4151110.24, 1.00, 1.00, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.02307 AT (564208.82, 4151145.16, 1.00, 1.00, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.02168 AT (564162.92, 4151096.45, 1.00, 1.00, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.01989 AT (564191.23, 4151093.66, 1.00, 1.00, 1.50)	DC	
	5TH HIGHEST VALUE IS	0.01959 AT (564148.56, 4151092.79, 1.00, 1.00, 1.50)	DC	
	6TH HIGHEST VALUE IS	0.01850 AT (564184.00, 4151087.00, 1.00, 1.00, 1.50)	DC	
	7TH HIGHEST VALUE IS	0.01848 AT (564210.51, 4151177.54, 1.00, 1.00, 1.50)	DC	
	8TH HIGHEST VALUE IS	0.01767 AT (564158.55, 4151084.80, 1.00, 1.00, 1.50)	DC	
	9TH HIGHEST VALUE IS	0.01611 AT (564126.03, 4151098.98, 1.00, 1.00, 1.50)	DC	
	10TH HIGHEST VALUE IS	0.01561 AT (564126.88, 4151212.46, 1.00, 1.00, 1.50)	DC	
Y2_ON-R	1ST HIGHEST VALUE IS	0.00237 AT (563984.00, 4151287.00, 1.00, 1.00, 1.50)	DC	
	2ND HIGHEST VALUE IS	0.00225 AT (563884.00, 4151387.00, 1.00, 1.00, 1.50)	DC	
	3RD HIGHEST VALUE IS	0.00223 AT (563934.00, 4151337.00, 1.00, 1.00, 1.50)	DC	
	4TH HIGHEST VALUE IS	0.00211 AT (564034.00,		

```
4151237.00,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.00174 AT (  563834.00,
4151337.00,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.00171 AT (  563934.00,
4151387.00,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.00167 AT (  563784.00,
4151337.00,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.00146 AT (  564084.00,
4151187.00,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.00144 AT (  563834.00,
4151387.00,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.00142 AT (  563812.99,
4151377.74,     1.00,     1.00,    1.50)  DC

Y2_ON-A   1ST HIGHEST VALUE IS       0.02512 AT (  564183.19,
4151110.24,     1.00,     1.00,    1.50)  DC
          2ND HIGHEST VALUE IS       0.02329 AT (  564208.82,
4151145.16,     1.00,     1.00,    1.50)  DC
          3RD HIGHEST VALUE IS       0.02191 AT (  564162.92,
4151096.45,     1.00,     1.00,    1.50)  DC
          4TH HIGHEST VALUE IS       0.02008 AT (  564191.23,
4151093.66,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.01984 AT (  564148.56,
4151092.79,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.01871 AT (  564210.51,
4151177.54,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.01870 AT (  564184.00,
4151087.00,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.01789 AT (  564158.55,
4151084.80,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.01652 AT (  564126.88,
4151212.46,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.01641 AT (  564126.03,
4151098.98,     1.00,     1.00,    1.50)  DC

Y2_OFF    1ST HIGHEST VALUE IS       0.00000 AT (  564334.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          2ND HIGHEST VALUE IS       0.00000 AT (  564384.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          3RD HIGHEST VALUE IS       0.00000 AT (  564234.00,
4150987.00,     1.00,     1.00,    1.50)  DC
          4TH HIGHEST VALUE IS       0.00000 AT (  564434.00,
4150837.00,     1.00,     1.00,    1.50)  DC
          5TH HIGHEST VALUE IS       0.00000 AT (  564220.50,
4150997.85,     1.00,     1.00,    1.50)  DC
          6TH HIGHEST VALUE IS       0.00000 AT (  564207.53,
4151007.19,     1.00,     1.00,    1.50)  DC
          7TH HIGHEST VALUE IS       0.00000 AT (  564231.22,
4150986.27,     1.00,     1.00,    1.50)  DC
          8TH HIGHEST VALUE IS       0.00000 AT (  564184.00,
4151037.00,     1.00,     1.00,    1.50)  DC
          9TH HIGHEST VALUE IS       0.00000 AT (  564144.00,
```

```
4151067.00,     1.00,     1.00,    1.50)  DC
         10TH HIGHEST VALUE IS       0.00000 AT (  564144.00,
4151057.00,     1.00,     1.00,    1.50)  DC


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

```
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\308-
Phelps_Construction-HRA_20221102\308-Phelps_Constructio ***
11/03/22
 *** AERMET - VERSION  18081 ***   ***
***        11:42:17

PAGE 143
 *** MODELOPTs:    NonDFAULT  CONC  FLAT  FLGPOL  URBAN  SigA
Data

 *** 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         2057 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          106 Calm Hours Identified

 A Total of         1951 Missing Hours Identified (  4.45
Percent)


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


    ********   WARNING MESSAGES   ********
 MX W403    1702       PFLCNV: Turbulence data is being used w/o
ADJ_U* option       SigA Data
 MX W403       1       PFLCNV: Turbulence data is being used w/o
ADJ_U* option       SigA Data

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

Appendix A.4: Construction Health Risk Assessment Calculations (DPM)
308-310 Phelps Road Construction HRA
Residential Health Risk Calculations for MEIR - Unmitigated

METHODOLOGY

Dose (Air) = Cair x DBR x A x EF x CF

Where:
- Cair: Chemical concentration in air (µg/m^3)
- DBR: Daily breathing rate (L/kg-day)
- A: Inhalation adsorption factor (unitless)
- EF: Exposure Frequency, days at home / days in year (unitless)
- CF: 10^{-6} Conversion Factor (m^3/L and mg/µg)

Cancer Risk (per million) = Dose (Air) x CPF x ASF x (ED/AT) x FAH x 1,000,000

Where:
- Dose: Dose of chemical in the air (µg/m3)
- CPF: Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$
- ASF: Age Sensitivity Factor
- ED: Exposure Duration (years)
- AT: Averaging Time for lifetime cancer risks
- FAH: Fraction of daily time spent at home / school

Risk Parameter Values by Age Bin

Variable	Residential Age Bin				
	3rd Trimester	0-2 Years	2-16 Years	16-30 Years	16-70 Years
DBR	361	1090	572	261	233
A	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96
CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
CPF	1.1	1.1	1.1	1.1	1.1
ASF	10	10	3	1	1
ED	0.25	2	14	14	54
AT	70	70	70	70	70
FAH	1	1	1	0.73	0.73

AERMOD Modeled DPM Concentrations (PMI/MEIR)

	PMI			MEIR		
	Conc.	X	Y	Conc.	X	Y
Year 1	0.2924	564191.23	4151093.66	0.2924	564191.23	4151093.66
Year 2	0.1486	564191.23	4151093.66	0.1486	564191.23	4151093.66

Risk Assessment Year 1 MEIR

Scenario	AERMOD DPM Conc.	Chronic Hazard Quotient
Year 1	0.2924	0.05848
Year 2	0.1486	0.02971

Year 1: Dose @ MEIR

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.29239	361	1	0.96	1.00E-06	=	1.01E-04
0-2 Years	0.29239	1090	1	0.96	1.00E-06	=	3.06E-04
2-16 Years	0.29239	572	1	0.96	1.00E-06	=	1.60E-04
16-30 Years	0.29239	261	1	0.96	1.00E-06	=	7.32E-05
30-70 Years	0.29239	233	1	0.96	1.00E-06	=	6.53E-05

Year 1 Excess Risk at MEIR

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	1.01E-04	1.1	10	0.25	70	1	1,000,000	4.0
0-2 Years	3.06E-04	1.1	10	1.00	70	1	1,000,000	48.0
2-16 Years	1.60E-04	1.1	3	1.00	70	1	1,000,000	7.6
16-30 Years	7.32E-05	1.1	1	1.00	70	0.73	1,000,000	0.8
30-70 Years	6.53E-05	1.1	1	1.00	70	0.73	1,000,000	0.7

Year 2 Dose @ MEIR

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.14856	361	1	0.96	1.00E-06	=	5.14E-05
0-2 Years	0.14856	1090	1	0.96	1.00E-06	=	1.55E-04
2-16 Years	0.14856	572	1	0.96	1.00E-06	=	8.15E-05
16-30 Years	0.14856	261	1	0.96	1.00E-06	=	3.72E-05
30-70 Years	0.14856	233	1	0.96	1.00E-06	=	3.32E-05

Year 2 Excess Risk at MEIR

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	5.14E-05	1.1	10	0.25	70	1	1,000,000	2.0
0-2 Years	1.55E-04	1.1	10	1.00	70	1	1,000,000	24.4
2-16 Years	8.15E-05	1.1	3	1.00	70	1	1,000,000	3.8
16-30 Years	3.72E-05	1.1	1	1.00	70	0.73	1,000,000	0.4
30-70 Years	3.32E-05	1.1	1	1.00	70	0.73	1,000,000	0.4

Total Excess Risk at MEIR (Exposure Years 1 and 2)

	Risks Presented by Age at Time of Construction Initiation				
	Infant	Child (1-2)	Child 2<x<16	Adult 16<x<30	Adult 30<x<70
Year 1	52.0	48.0	7.6	0.8	0.7
Year 2	24.4	3.8	3.8	0.4	0.4
Total	76.4	51.9	11.4	1.3	1.1

Note: Infant exposure includes 3rd trimester (0.25 years) and child (1 year exposure) in Year 1

Appendix A.4: Construction Health Risk Assessment Calculations (DPM)
308-310 Phelps Road Construction HRA
Residential Health Risk Calculations for MEIR - Mitigated

METHODOLOGY

Dose (Air) = Cair x DBR x A x EF x CF

Where:
- Cair: Chemical concentration in air (µg/m^3)
- DBR: Daily breathing rate (L/kg-day)
- A: Inhalation adsorption factor (unitless)
- EF: Exposure Frequency, days at home / days in year (unitless)
- CF: 10^{-6} Conversion Factor (m^3/L and mg/µg)

Cancer Risk (per million) = Dose (Air) x CPF x ASF x (ED/AT) x FAH x 1,000,000

Where:
- Dose: Dose of chemical in the air (µg/m3)
- CPF: Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$
- ASF: Age Sensitivity Factor
- ED: Exposure Duration (years)
- AT: Averaging Time for lifetime cancer risks
- FAH: Fraction of daily time spent at home / school

Risk Parameter Values by Age Bin

Variable	Residential Age Bin				
	3rd Trimester	0-2 Years	2-16 Years	16-30 Years	16-70 Years
DBR	361	1090	572	261	233
A	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96
CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
CPF	1.1	1.1	1.1	1.1	1.1
ASF	10	10	3	1	1
ED	0.25	2	14	14	54
AT	70	70	70	70	70
FAH	1	1	1	0.73	0.73

AERMOD Modeled DPM Concentrations (PMI/MEIR)

	PMI			MEIR		
	Conc.	X	Y	Conc.	X	Y
Year 1	0.0300	564191.23	4151093.66	0.0300	564191.23	4151093.66
Year 2	0.0201	564191.23	4151093.66	0.0201	564191.23	4151093.66

Risk Assessment Year 1 MEIR

Scenario	AERMOD DPM Conc.	Chronic Hazard Quotient
Year 1	0.0300	0.00599
Year 2	0.0201	0.00402

Year 1: Dose @ MEIR

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.02996	361	1	0.96	1.00E-06	=	1.04E-05
0-2 Years	0.02996	1090	1	0.96	1.00E-06	=	3.13E-05
2-16 Years	0.02996	572	1	0.96	1.00E-06	=	1.64E-05
16-30 Years	0.02996	261	1	0.96	1.00E-06	=	7.50E-06
30-70 Years	0.02996	233	1	0.96	1.00E-06	=	6.69E-06

Year 1 Excess Risk at MEIR

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	1.04E-05	1.1	10	0.25	70	1	1,000,000	0.4
0-2 Years	3.13E-05	1.1	10	1.00	70	1	1,000,000	4.9
2-16 Years	1.64E-05	1.1	3	1.00	70	1	1,000,000	0.8
16-30 Years	7.50E-06	1.1	1	1.00	70	0.73	1,000,000	0.1
30-70 Years	6.69E-06	1.1	1	1.00	70	0.73	1,000,000	0.1

Year 2 Dose @ MEIR

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.02008	361	1	0.96	1.00E-06	=	6.95E-06
0-2 Years	0.02008	1090	1	0.96	1.00E-06	=	2.10E-05
2-16 Years	0.02008	572	1	0.96	1.00E-06	=	1.10E-05
16-30 Years	0.02008	261	1	0.96	1.00E-06	=	5.03E-06
30-70 Years	0.02008	233	1	0.96	1.00E-06	=	4.49E-06

Year 2 Excess Risk at MEIR

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	6.95E-06	1.1	10	0.25	70	1	1,000,000	0.3
0-2 Years	2.10E-05	1.1	10	1.00	70	1	1,000,000	3.3
2-16 Years	1.10E-05	1.1	3	1.00	70	1	1,000,000	0.5
16-30 Years	5.03E-06	1.1	1	1.00	70	0.73	1,000,000	0.1
30-70 Years	4.49E-06	1.1	1	1.00	70	0.73	1,000,000	0.1

Total Excess Risk at MEIR (Exposure Years 1 and 2)

Risks Presented by Age at Time of Construction Initiation

	Infant	Child (1-2)	Child 2<x<16	Adult 16<x<30	Adult 30<x<70
Year 1	5.3	4.9	0.8	0.1	0.1
Year 2	3.3	0.5	0.5	0.1	0.1
Total	8.6	5.4	1.3	0.1	0.1

Note: Infant exposure includes 3rd trimester (0.25 years) and child (1 year exposure) in Year 1

Appendix A.4: Construction Health Risk Assessment Calculations (DPM)
308-310 Phelps Road Construction HRA
Student Health Risk Calculations - Unmitigated

Dose (Air) = Cair x (BR/BW) x A x EF x CF

Where:
- Cair: Chemical concentration in air (µg/m^3)
- DBR: Daily breathing rate (L/kg-day)
- A: Inhalation adsorption factor (unitless)
- EF: Exposure Frequency, days at school / days in year (unitless)
- CF: 10^{-6} Conversion Factor (m^3/L and mg/µg)

Cancer Risk (per million) = Dose (Air) x CPF x ASF x (ED/AT) x FAH x 1,000,000

Where:
- Dose: Dose of chemical in the air (µg/m3)
- CPF: Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$
- ASF: Age Sensitivity Factor
- ED: Exposure Duration (years)
- AT: Averaging Time for lifetime cancer risks
- FAH: Fraction of daily time spent at school

General Calculation Values

A	1	
EF	0.49	(Assumes receptor would be at site 5 days per week; 180 days at school out of 365 days/year)
CPF	1.1	Factor is for diesel particulate matter
AT	70	Years

Risk Calculation Values by Age Bin (Elementary School - 10.5 Hour Period)

School receptor	Residential Age Bin					
	3rd Trimester	0-2 Years	2-9 Years	2-16 Years	16-30 Years	16-70 Years
DBR	N/A	1200	640	520	240	230
ASF	N/A	10	3	3	1	1
ED	N/A	2	7	14	14	54
FAH	N/A	0.44	0.44	0.44	0.44	0.44

Note: FAH accounts for 10.5 hours at school, per day. Captures before and after school care.

Receptor Location and DPM Concentrations

	Con'c	X	Y
Year 1	0.16178	564134.00	4151067.00
Year 2	0.06676	564134.00	4151067.00

Risk Assessment Year 1 MEIS

Scenario	AERMOD DPM Conc.	Chronic Hazard Quotient
Year 1	0.1618	0.03236
Year 2	0.0668	0.01335

Student Construction Risk Calculations: Year 1

Age Group	Cair x	BR	A	EF	CF		Dose
2-9 Years	0.16178	640	1	0.49	1.00E-06	=	5.11E-05
2-16 Years	0.16178	520	1	0.49	1.00E-06	=	4.15E-05

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
2-9 Years	5.11E-05	1.1	3	1	70	0.44	1,000,000	1.05
2-16 Years	4.15E-05	1.1	3	1	70	0.44	1,000,000	0.86

Student Construction Risk Calculations: Year 2

Age Group	Cair x	BR	A	EF	CF		Dose
2-9 Years	0.0668	640	1	0.49	1.00E-06	=	2.11E-05
2-16 Years	0.0668	520	1	0.49	1.00E-06	=	1.71E-05

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
2-9 Years	2.11E-05	1.1	3	1	70	0.44	1,000,000	0.43
2-16 Years	1.71E-05	1.1	3	1	70	0.44	1,000,000	0.35

Total Excess Risk at MEIS (Exposure Years 1 and 2)

Risks Presented by Age at Time of Construction Initiation

	Child 2<x<9	Child 2<x<16
Year 1	1.1	0.9
Year 2	0.4	0.4
Total	1.5	1.2

Appendix A.4: Construction Health Risk Assessment Calculations (DPM)
308-310 Phelps Road Construction HRA
Student Health Risk Calculations - Mitigated

Dose (Air) = Cair x (BR/BW) x A x EF x CF

Where:
- Cair: Chemical concentration in air (µg/m^3)
- DBR: Daily breathing rate (L/kg-day)
- A: Inhalation adsorption factor (unitless)
- EF: Exposure Frequency, days at school / days in year (unitless)
- CF: 10^{-6} Conversion Factor (m^3/L and mg/µg)

Cancer Risk (per million) = Dose (Air) x CPF x ASF x (ED/AT) x FAH x 1,000,000

Where:
- Dose: Dose of chemical in the air (µg/m3)
- CPF: Cancer Potency Factor $(mg/kg\text{-}day)^{-1}$
- ASF: Age Sensitivity Factor
- ED: Exposure Duration (years)
- AT: Averaging Time for lifetime cancer risks
- FAH: Fraction of daily time spent at school

General Calculation Values

A	1	
EF	0.49	(Assumes receptor would be at site 5 days per week; 180 days at school out of 365 days/year)
CPF	1.1	Factor is for diesel particulate matter
AT	70	Years

Risk Calculation Values by Age Bin (Elementary School - 10.5 Hour Period)

Variable	Residential Age Bin					
	3rd Trimester	0-2 Years	2-9 Years	2-16 Years	16-30 Years	16-70 Years
DBR	N/A	1200	640	520	240	230
ASF	N/A	10	3	3	1	1
ED	N/A	2	7	14	14	54
FAH	N/A	0.44	0.44	0.44	0.44	0.44

Note: FAH accounts for 10.5 hours at school, per day. Captures before and after school care.

Receptor Location and DPM Concentrations

	Con'c	X	Y
Year 1	0.01636	564134.00	4151067.00
Year 2	0.00902	564134.00	4151067.00

Risk Assessment Year 1 MEIS

Scenario	AERMOD DPM Conc.	Chronic Hazard Quotient
Year 1	0.0164	0.00327
Year 2	0.0090	0.00180

Student Construction Risk Calculations: Year 1

Age Group	Cair x	BR	A	EF	CF		Dose
2-9 Years	0.01636	640	1	0.49	1.00E-06	=	5.16E-06
2-16 Years	0.01636	520	1	0.49	1.00E-06	=	4.20E-06

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
2-9 Years	5.16E-06	1.1	3	1	70	0.44	1,000,000	0.11
2-16 Years	4.20E-06	1.1	3	1	70	0.44	1,000,000	0.09

Student Construction Risk Calculations: Year 2

Age Group	Cair x	BR	A	EF	CF		Dose
2-9 Years	0.0090	640	1	0.49	1.00E-06	=	2.85E-06
2-16 Years	0.0090	520	1	0.49	1.00E-06	=	2.31E-06

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
2-9 Years	2.85E-06	1.1	3	1	70	0.44	1,000,000	0.06
2-16 Years	2.31E-06	1.1	3	1	70	0.44	1,000,000	0.05

Total Excess Risk at MEIS (Exposure Years 1 and 2)

Risks Presented by Age at Time of Construction Initiation

	Child 2<x<9	Child 2<x<16
Year 1	0.1	0.1
Year 2	0.1	0.0
Total	0.2	0.1

Appendix B
Energy Calculations

308-310 Phelps Road Residential Subdivision (San Carlos)

Construction and Operational Energy Calculations
Prepared by: MIG, Inc.
November 2022

Contents:

Sheet 1: Summary of On- and Off-Road Fuel Consumption
Sheet 2: Construction Off-site Fuel Consumption Estimates
Sheet 3: Operational Fuel Consumption
Sheet 4: Raw EMFAC2021 (v1.0.2) Emissions Inventory for San Mateo County (2025)

Sheet 1: Summary of On- and Off-Road Fuel Consumption

Table 1-1: Off-Road Equipment Fuel Consumption

Year	Diesel Fuel Consumed (Gal)	Gasoline Fuel Consumed (Gal)	Electricity Consumed (kWh)
Off-Road Equipment	63,988	--	--
On-Road Equipment	11,941	31,053	10,488
Total	75,930	31,053	10,488

Table 1-2: Operational Vehicle Fuel Consumption

Operational Estimates	Diesel Fuel Consumed (Gal)	Gasoline Fuel Consumed (Gal)	Electricity Consumed (kW)
Mobile Sources	29,981	255,469	160,615
Based on Annual VMT of:	7,232,415		

Table 1-3: Operational Energy Consumption (Building)

Land Use	Electricity (kWh/yr)	Natural Gas (kBTU/yr)
Single Family Housing	70,397	-
Total	70,397	-

Table 1-4: Total Operational Energy Consumption

Source	Diesel Fuel Consumed (Gal)	Gasoline Fuel Consumed (Gal)	Electricity Consumed (kW)	Natural Gas (kBTU/yr)
Mobile Source	29,981	255,469	160,615	0
Building	0	0	70,397	-
Total	29,981	255,469	231,011	0

Sheet 2: Construction On-site Fuel Consumption Estimations

Phase	Days	Equipment	# of Pieces	Hr/Day	Horsepower	Load Factor	Runtime (bhp-hr)	Consumption (bhp-hr/gal)[1]	Gallons of Diesel
Demolition	22	Concrete/Industrial Saws	1	8	81	0.73	10,407	18.5	563
		Dumpers/Tenders	1	8	16	0.38	1,070		58
		Excavators	1	6	158	0.38	7,925		428
		Rubber Tired Dozers	1	8	247	0.40	17,389		940
		Rubber Tired Loaders	1	8	203	0.36	12,862		695
		Skid Steer Loaders	1	8	65	0.37	4,233		229
		Sweepers/Scrubers	1	6	64	0.46	3,886		210
		Tractors/Loaders/Backhoes	2	6	97	0.37	9,475		512
Site Preparation	63	Dumpers/Tenders	1	8	16	0.38	3,064		166
		Excavators	1	6	158	0.38	22,695		1,227
		Graders	1	8	187	0.41	38,642		2,089
		Plate Compactors	1	6	8	0.43	1,300		70
		Rubber Tired Dozers	1	8	247	0.40	49,795		2,692
		Rubber Tired Loaders	1	8	203	0.36	36,832		1,991
		Skid Steer Loaders	1	8	65	0.37	12,121		655
		Sweepers/Scrubers	1	6	64	0.46	11,128		602
		Tractors/Loaders/Backhoes	2	8	97	0.37	36,177		1,956
Grading	89	Excavators	1	8	158	0.38	42,748		2,311
		Graders	1	8	187	0.41	54,589		2,951
		Plate Compactors	1	6	8	0.43	1,837		99
		Rubber Tired Dozers	1	8	247	0.40	70,346		3,802
		Rubber Tired Loaders	1	8	203	0.36	52,033		2,813
		Skid Steer Loaders	1	8	65	0.37	17,124		926
		Sweepers/Scrubers	1	6	64	0.46	15,721		850
		Tractors/Loaders/Backhoes	2	6	97	0.37	38,331		2,072
Building Construction	261	Air Compressors	1	4	78	0.48	39,087		2,113
		Cement and Mortar Mixers	1	2	9	0.56	2,631		142
		Concrete/Industrial Saws	1	2	81	0.73	30,866		1,668
		Dumpers/Tenders	1	4	16	0.38	6,348		343
		Forklifts	1	8	89	0.20	37,166		2,009
		Generator Sets	2	4	84	0.74	129,790		7,016
		Plate Compactors	1	2	8	0.43	1,796		97
		Pressure Washers	1	2	13	0.30	2,036		110
		Pumps	2	4	84	0.74	129,790		7,016
		Rough Terrain Forklifts	1	8	100	0.40	83,520		4,515
		Skid Steer Loaders	1	4	65	0.37	25,108		1,357
		Sweepers/Scrubers	1	4	64	0.46	30,735		1,661

		Welders	1	2	46	0.45	10,805		584
Paving	44	Concrete/Industrial Saws	1	2	81	0.73	5,203		281
		Graders	1	4	187	0.41	13,494		729
		Paving Equipment	1	6	132	0.36	12,545		678
		Plate Compactors	1	2	8	0.43	303		16
		Rollers	1	6	80	0.38	8,026		434
		Rubber Tired Dozers	1	4	203	0.36	12,862		695
		Signal Boards	1	8	6	0.82	1,732		94
		Skid Steer Loaders	1	6	65	0.37	6,349		343
		Sweepers/Scrubers	1	4	64	0.46	5,181		280
		Tractors/Loaders/Backhoes	2	4	97	0.37	12,633		683
Architectural Coating	18	Air Compressors	1	6	78	0.48	4,044		219
								Total	63,988

[1] The Carl Moyer Program Guidelines 2017 Revisions. Table D-21. Approved by the Board April 27, 2017.

Sheet 3: Construction Off-site Fuel Consumption Estimates

Phase	Days	Number of Trips	Dist (mi)	Total VMT	Vehicle Class	Percent of Workers by Vehicle Class	Gasoline Average Fuel Economy (MPG)	Gasoline Fuel Split	Gasoline Fuel Consumption by Class (gal)	Diesel Average Fuel Economy (MPG)	Diesel Fuel Split	Diesel Fuel Consumption by Class (gal)	Electricity Average Economy (mi/kWh)	Electric Split	Electricity Consumption by Class (kWh)	Hybrid Average Economy (mi/kWh)	Hybrid Average Economy (mi/gal)	Hybrid Split	Hybrid Consumption by Class (kWh)	Hybrid Consumption by Class (gal)	Gasoline Fuel Consumption by Phase (gal)	Diesel Fuel Consumption by Phase (gal)	Electricity Consumption by Phase (kWh)
Worker Trips																							
Demolition	22	20	10.8	4752	LDA	0.25	31.2	89.39%	34	44.2	0.27%	0.1	2.59	7.33%	33.6	6.3	63.5	3.01%	5.7	0.6	167.1	0.2	51.8
					LDT1	0.50	26.6	99.22%	89	24.4	0.02%	0.0	2.59	0.45%	4.1	5.8	69.2	0.31%	1.2	0.1			
					LDT2	0.25	26.0	97.37%	44	34.3	0.38%	0.1	2.59	1.04%	4.8	6.1	65.8	1.21%	2.4	0.2			
Site Preparation	63	50	10.8	34020	LDA	0.25	31.2	89.39%	244	44.2	0.3%	0.5	2.59	7.33%	240.7	6.3	63.5	3.01%	40.7	4.0	1,196.3	1.6	370.6
					LDT1	0.50	26.6	99.22%	635	24.4	0.02%	0.2	2.59	0.45%	29.2	5.8	69.2	0.31%	8.9	0.8			
					LDT2	0.25	26.0	97.37%	318	34.3	0.4%	0.9	2.59	1.04%	34.1	6.1	65.8	1.21%	17.0	1.6			
Grading	89	100	10.8	96120	LDA	0.25	31.2	89.4%	688	44.2	0.3%	1.4	2.59	7.33%	680.0	6.3	63.5	3.01%	114.9	11.4	3,380.0	4.6	1,047.0
					LDT1	0.50	26.6	99.2%	1,793	24.4	0.02%	0.5	2.59	0.45%	82.6	5.8	69.2	0.31%	25.2	2.1			
					LDT2	0.25	26.0	97.4%	898	34.3	0.4%	2.6	2.59	1.04%	96.2	6.1	65.8	1.21%	48.1	4.4			
Building Construction	261	250	10.8	704700	LDA	0.25	31.2	89.4%	5,044	44.2	0.3%	10.6	2.59	7.33%	4,985.3	6.3	63.5	3.01%	842.5	83.6	24,780.0	33.5	7,676.2
					LDT1	0.50	26.6	99.2%	13,148	24.4	0.02%	3.5	2.59	0.45%	605.7	5.8	69.2	0.31%	184.7	15.6			
					LDT2	0.25	26.0	97.4%	6,587	34.3	0.4%	19.4	2.59	1.04%	705.3	6.1	65.8	1.21%	352.6	32.5			
Paving	44	75	10.8	35640	LDA	0.25	31.2	89.4%	255	44.2	0.3%	0.5	2.59	7.33%	252.1	6.3	63.5	3.01%	42.6	4.2	1,253.2	1.7	388.2
					LDT1	0.50	26.6	99.2%	665	24.4	0.02%	0.2	2.59	0.45%	30.6	5.8	69.2	0.31%	9.3	0.8			
					LDT2	0.25	26.0	97.4%	333	34.3	0.4%	1.0	2.59	1.04%	35.7	6.1	65.8	1.21%	17.8	1.6			
Architectural Coating	18	20	10.8	3888	LDA	0.25	31.2	89.4%	28	44.2	0.3%	0.1	2.59	7.33%	27.5	6.3	63.5	3.01%	4.6	0.5	136.7	0.2	42.4
					LDT1	0.50	26.6	99.2%	73	24.4	0.02%	0.0	2.59	0.45%	3.3	5.8	69.2	0.31%	1.0	0.1			
					LDT2	0.25	26.0	97.4%	36	34.3	0.4%	0.1	2.59	1.04%	3.9	6.1	65.8	1.21%	1.9	0.2			
Sub-Total Worker Trips Energy Consumption							Gasoline (gal)		30,913.3	Diesel (gal)		41.8	Electricity (kWh)		7,854.8	Hybrid (kWh; gal of gasoline)			1,721.3	164.3	30,913.3	41.8	9,576.1
Vendor Trips																							
Demolition	22	1	7.3	160.6	MHDT	0.5	4.9	15.9%	3	8.5	82.49%	8	0.90	0.80%	0.71	--	--	--	--	--	2.6	20.7	1.7
					HHDT	0.5	3.9	0.3%	0.06	5.4	87.20%	13	0.54	0.66%	0.99	--	--	--	--	--			
Site Preparation	63	1	7.3	459.9	MHDT	0.5	4.9	15.9%	7	8.5	82.49%	22	0.90	0.80%	2.04	--	--	--	--	--	7.5	59.4	4.9
					HHDT	0.5	3.9	0.3%	0.17	5.4	87.20%	37	0.54	0.66%	2.82	--	--	--	--	--			
Grading	89	1	7.3	649.7	MHDT	0.5	4.9	15.9%	10	8.5	82.49%	32	0.90	0.80%	2.88	--	--	--	--	--	10.7	83.9	6.9
					HHDT	0.5	3.9	0.3%	0	5.4	87.20%	52	0.54	0.66%	3.99	--	--	--	--	--			
Building Construction	261	2	7.3	3810.6	MHDT	0.5	4.9	15.9%	61	8.5	82.49%	186	0.90	0.80%	16.90	--	--	--	--	--	62.5	492.2	40.3
					HHDT	0.5	3.9	0.3%	1	5.4	87.20%	307	0.54	0.66%	23.40	--	--	--	--	--			
Paving	44	1	7.3	321.2	MHDT	0.5	4.9	15.9%	5	8.5	82.49%	16	0.90	0.80%	1.42	--	--	--	--	--	5.3	41	3.4
					HHDT	0.5	3.9	0.3%	0	5.4	87.20%	26	0.54	0.66%	1.97	--	--	--	--	--			
Sub-Total Vendor Trips Energy Consumption							Gasoline (gal)		88.6	Diesel (gal)		697.8	Electricity (kWh)		57.1	--	--	--	--	--	89	698	57
Hauling Trips																							
Demolition	22	49	50	2450	HHDT	1.0	3.9	0.28%	1.8	5.4	87.20%	394	0.5	0.66%	30.09	--	--	--	--	--	1.8	394	30.09
Building Construction	89	1343	50	67150	HHDT	1.0	3.9	0.28%	49.59	5.4	87.20%	10,807	0.5	0.66%	824.68	--	--	--	--	--	49.6	10,807	824.68
Sub-Total Haul Trips Energy Consumption							Gasoline (gal)		51.400	Diesel (gal)		11,201.8	Electricity (kWh)		855	--	--	--	--	--	51.4	11,202	855
Total On-Road Construction Trips Genergy Usage									**Gasoline (gal)**	**31,053**		**Diesel (gal)**	**11,941**		**Electricity (kWh)**			**10,488**					

Sheet 4: Average Fuel Efficiency - San Mateo

EMFAC2021 San Mateo County Fuel Efficiency Estimates for 2025

Table 4-1: 2025 San Mateo County Average Vehicle Fuel Efficiency (Gasoline)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	4.34	539.44	139.96	3.85
LDA	246,662.13	7,320,237.30	234,632.29	31.20
LDT1	25,551.79	724,295.81	27,234.02	26.60
LDT2	161,663.03	5,105,177.11	195,871.22	26.06
LHDT1	11,613.82	405,927.24	39,533.65	10.27
LHDT2	1,342.43	45,031.50	4,942.44	9.11
MCY	13,994.78	78,703.42	1,850.74	42.53
MDV	90,941.87	2,935,200.72	135,600.83	21.65
MH	830.54	8,053.18	1,822.05	4.42
MHDT	825.64	47,612.58	9,632.36	4.94
OBUS	252.72	13,715.02	2,746.27	4.99
SBUS	71.37	3,679.78	357.30	10.30
UBUS	61.63	4,190.34	485.94	8.62
TOTAL	553,816.08	16,692,363.43	654,849.07	25.49

Table 4-2: 2025 San Mateo County Average Vehicle Fuel Efficiency (Diesel)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Gallons Per Day	Miles Per Gallon
HHDT	1,328.41	119,560.68	22,066.18	5.42
LDA	710.58	15,407.46	348.54	44.21
LDT1	6.30	75.91	3.11	24.39
LDT2	618.93	19,447.24	566.64	34.32
LHDT1	5,396.71	200,335.34	12,320.09	16.26
LHDT2	2,386.59	88,314.97	6,413.10	13.77
MCY	0.00	0.00	0.00	0.00
MDV	1,216.21	38,222.55	1,467.19	26.05
MH	384.51	3,863.22	413.18	9.35
MHDT	4,294.92	177,557.82	20,963.78	8.47
OBUS	1,111.58	75,305.13	9,237.04	8.15
SBUS	168.94	3,758.24	458.49	8.20
UBUS	278.22	21,526.83	2,593.71	8.30
TOTAL	17901.90	763375.39	76851.04	9.93

Table 4-3: 2025 San Mateo County Average Vehicle Fuel Efficiency (Electricity)

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/day)	Miles Per kWh
HHDT	10.02	901.00	1,681.60	0.54
LDA	27,609.10	894,815.12	332,951.88	2.69
LDT1	193.00	5,917.94	2,141.09	2.76
LDT2	3,689.97	88,573.71	30,855.30	2.87
LHDT1	157.58	8,786.55	5,753.38	1.53
LHDT2	40.49	2,145.22	1,383.68	1.55
MCY	0.00	0.00	0.00	0.00
MDV	2,956.09	75,551.36	27,223.83	2.78
MH	0.00	0.00	0.00	0.00
MHDT	41.50	2,407.79	2,680.29	0.90
OBUS	2.14	185.55	205.56	0.90
SBUS	1.98	78.89	83.11	0.95
UBUS	37.32	3,870.54	6,747.29	0.57
TOTAL	34,739.20	1,083,233.68	411,707.02	2.63

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: San Mateo
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day f

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT
San Mateo	2025	HHDT	Aggregate	Aggregate	Gasoline	4.335984	539.4434	539.4434
San Mateo	2025	HHDT	Aggregate	Aggregate	Diesel	1328.41	119560.7	119560.7
San Mateo	2025	HHDT	Aggregate	Aggregate	Electricity	10.02384	901.0022	0
San Mateo	2025	HHDT	Aggregate	Aggregate	Natural Ga	180.5549	11842.66	11842.66
San Mateo	2025	LDA	Aggregate	Aggregate	Gasoline	238618	7185689	7185689
San Mateo	2025	LDA	Aggregate	Aggregate	Diesel	710.5834	15407.46	15407.46
San Mateo	2025	LDA	Aggregate	Aggregate	Electricity	19564.98	745853.8	0
San Mateo	2025	LDA	Aggregate	Aggregate	Plug-in Hyb	8044.117	283509.4	134548.1
San Mateo	2025	LDT1	Aggregate	Aggregate	Gasoline	25473.09	722986.2	722986.2
San Mateo	2025	LDT1	Aggregate	Aggregate	Diesel	6.297196	75.91061	75.91061
San Mateo	2025	LDT1	Aggregate	Aggregate	Electricity	114.3013	4207.979	0
San Mateo	2025	LDT1	Aggregate	Aggregate	Plug-in Hyb	78.69736	3019.599	1309.635
San Mateo	2025	LDT2	Aggregate	Aggregate	Gasoline	159673.6	5072144	5072144
San Mateo	2025	LDT2	Aggregate	Aggregate	Diesel	618.9276	19447.24	19447.24
San Mateo	2025	LDT2	Aggregate	Aggregate	Electricity	1700.502	48819.4	0
San Mateo	2025	LDT2	Aggregate	Aggregate	Plug-in Hyb	1989.466	72787.26	33032.95
San Mateo	2025	LHDT1	Aggregate	Aggregate	Gasoline	11613.82	405927.2	405927.2
San Mateo	2025	LHDT1	Aggregate	Aggregate	Diesel	5396.711	200335.3	200335.3
San Mateo	2025	LHDT1	Aggregate	Aggregate	Electricity	157.5841	8786.546	0
San Mateo	2025	LHDT2	Aggregate	Aggregate	Gasoline	1342.429	45031.5	45031.5
San Mateo	2025	LHDT2	Aggregate	Aggregate	Diesel	2386.592	88314.97	88314.97
San Mateo	2025	LHDT2	Aggregate	Aggregate	Electricity	40.48817	2145.224	0
San Mateo	2025	MCY	Aggregate	Aggregate	Gasoline	13994.78	78703.42	78703.42
San Mateo	2025	MDV	Aggregate	Aggregate	Gasoline	89810.74	2915872	2915872
San Mateo	2025	MDV	Aggregate	Aggregate	Diesel	1216.213	38222.55	38222.55
San Mateo	2025	MDV	Aggregate	Aggregate	Electricity	1824.97	52408.32	0
San Mateo	2025	MDV	Aggregate	Aggregate	Plug-in Hyb	1131.124	42471.44	19328.41
San Mateo	2025	MH	Aggregate	Aggregate	Gasoline	830.5401	8053.177	8053.177
San Mateo	2025	MH	Aggregate	Aggregate	Diesel	384.5125	3863.222	3863.222
San Mateo	2025	MHDT	Aggregate	Aggregate	Gasoline	825.6427	47612.58	47612.58
San Mateo	2025	MHDT	Aggregate	Aggregate	Diesel	4294.917	177557.8	177557.8
San Mateo	2025	MHDT	Aggregate	Aggregate	Electricity	41.49574	2407.793	0
San Mateo	2025	MHDT	Aggregate	Aggregate	Natural Ga	44.4449	2054.281	2054.281
San Mateo	2025	OBUS	Aggregate	Aggregate	Gasoline	252.722	13715.02	13715.02
San Mateo	2025	OBUS	Aggregate	Aggregate	Diesel	1111.576	75305.13	75305.13
San Mateo	2025	OBUS	Aggregate	Aggregate	Electricity	2.143949	185.5536	0
San Mateo	2025	OBUS	Aggregate	Aggregate	Natural Ga	9.18414	584.7868	584.7868
San Mateo	2025	SBUS	Aggregate	Aggregate	Gasoline	71.37135	3679.781	3679.781

San Mateo	2025	SBUS	Aggregate	Aggregate	Diesel	168.9397	3758.24	3758.24
San Mateo	2025	SBUS	Aggregate	Aggregate	Electricity	1.984894	78.89105	0
San Mateo	2025	SBUS	Aggregate	Aggregate	Natural Ga	6.552799	163.6295	163.6295
San Mateo	2025	UBUS	Aggregate	Aggregate	Gasoline	61.62557	4190.344	4190.344
San Mateo	2025	UBUS	Aggregate	Aggregate	Diesel	278.2185	21526.83	21526.83
San Mateo	2025	UBUS	Aggregate	Aggregate	Electricity	37.31748	3870.538	0
San Mateo	2025	UBUS	Aggregate	Aggregate	Natural Ga	65.5154	4534.391	4534.391

or Emissions, 1000 gallons/day for Fuel Consumption

EVMT	Trips	Energy Con	NOx_RUNE	NOx_IDLEX	NOx_STRE)	NOx_TOTE	PM2.5_RUI	PM2.5_IDL
0	86.75436	0	0.002375	0	1.93E-07	0.002375	8.19E-07	0
0	14621.91	0	0.346883	0.066499	0.048361	0.461742	0.003243	4.86E-05
901.0022	96.27797	1681.601	0	0	0	0	0	0
0	1200.105	0	0.017381	0.001763	0	0.019144	2.21E-05	2.43E-06
0	1119872	0	0.274183	0	0.291146	0.565329	0.008934	0
0	2980.227	0	0.00282	0	0	0.00282	0.000194	0
745853.8	96825.51	287961.1	0	0	0	0	0	0
148961.4	33262.42	44990.77	0.000953	0	0.004297	0.00525	0.00017	0
0	116608.1	0	0.070502	0	0.040338	0.11084	0.001138	0
0	17.6629	0	0.000137	0	0	0.000137	1.95E-05	0
4207.979	557.9394	1624.627	0	0	0	0	0	0
1709.964	325.4136	516.46	9.27E-06	0	4.2E-05	5.13E-05	1.16E-06	0
0	766397.2	0	0.241282	0	0.218837	0.46012	0.006212	0
0	2972.356	0	0.000757	0	0	0.000757	8.89E-05	0
48819.4	8654.222	18848.32	0	0	0	0	0	0
39754.31	8226.444	12006.99	0.000234	0	0.001063	0.001297	3.37E-05	0
0	173028.5	0	0.042047	0.000418	0.10429	0.146754	0.000604	0
0	67883.84	0	0.193921	0.009031	0	0.202952	0.004945	0.000159
8786.546	2203.775	5753.375	0	0	0	0	0	0
0	20000.19	0	0.005219	4.64E-05	0.012038	0.017303	6.37E-05	0
0	30020.32	0	0.06482	0.003818	0	0.068638	0.002016	7.05E-05
2145.224	536.9131	1383.682	0	0	0	0	0	0
0	27989.55	0	0.043848	0	0.003631	0.047479	0.000165	0
0	429459.7	0	0.163115	0	0.142644	0.305759	0.003547	0
0	5783.756	0	0.001397	0	0	0.001397	0.000154	0
52408.32	9288.746	20233.94	0	0	0	0	0	0
23143.04	4677.198	6989.887	0.000137	0	0.000604	0.000741	2.16E-05	0
0	83.08723	0	0.002382	0	3.67E-05	0.002418	1.39E-05	0
0	38.45125	0	0.012733	0	0	0.012733	0.000191	0
0	16519.46	0	0.016954	7.78E-05	0.007657	0.024689	7.09E-05	0
0	51845.95	0	0.232704	0.060974	0.092285	0.385963	0.002729	0.000131
2407.793	583.4118	2680.293	0	0	0	0	0	0
0	404.8873	0	0.00027	0.00032	0	0.00059	2.93E-06	9.49E-07
0	5056.462	0	0.003844	1.77E-05	0.002033	0.005896	1.59E-05	0
0	10889.45	0	0.067417	0.006855	0.017975	0.092247	0.000768	3.91E-06
185.5536	42.89613	205.565	0	0	0	0	0	0
0	81.73885	0	0.000107	1.55E-05	0	0.000122	7.6E-07	4.14E-08
0	285.4854	0	0.003112	6.95E-05	0.000197	0.003379	4.58E-06	0

0	2446.247	0	0.018178	0.00417	0.001286	0.023633	8.66E-05	4.04E-06
78.89105	17.7986	83.10822	0	0	0	0	0	0
0	94.88454	0	9.3E-05	3.78E-05	0	0.000131	6.09E-07	8.74E-08
0	246.5023	0	0.000173	0	0.000134	0.000306	5.1E-06	0
0	1112.874	0	0.008912	0	0	0.008912	0.000162	0
3870.538	149.2699	6747.293	0	0	0	0	0	0
0	262.0616	0	0.000277	0	0	0.000277	1.36E-06	0

PM2.5_STR	PM2.5_TO	PM2.5_PM	PM2.5_PM	PM2.5_TO	PM10_RUN	PM10_IDLE	PM10_STR	PM10_TOT
6.6E-08	8.85E-07	2.97E-06	1.84E-05	2.23E-05	8.91E-07	0	7.18E-08	9.63E-07
0	0.003292	0.001134	0.004006	0.008432	0.00339	5.08E-05	0	0.003441
0	0	8.46E-06	1.7E-05	2.54E-05	0	0	0	0
0	2.45E-05	0.000117	0.000785	0.000927	2.4E-05	2.65E-06	0	2.67E-05
0.002359	0.011294	0.015842	0.018603	0.045738	0.009717	0	0.002566	0.012283
0	0.000194	3.4E-05	4.09E-05	0.000269	0.000203	0	0	0.000203
0	0	0.001644	0.001258	0.002903	0	0	0	0
7.04E-05	0.00024	0.000625	0.000416	0.001281	0.000185	0	7.65E-05	0.000261
0.000294	0.001433	0.001594	0.002247	0.005273	0.001238	0	0.00032	0.001558
0	1.95E-05	1.67E-07	2.77E-07	2E-05	2.04E-05	0	0	2.04E-05
0	0	9.28E-06	7.1E-06	1.64E-05	0	0	0	0
4.88E-07	1.65E-06	6.66E-06	4.48E-06	1.28E-05	1.27E-06	0	5.31E-07	1.8E-06
0.001541	0.007753	0.011182	0.015233	0.034169	0.006756	0	0.001676	0.008432
0	8.89E-05	4.29E-05	5.89E-05	0.000191	9.29E-05	0	0	9.29E-05
0	0	0.000108	8.21E-05	0.00019	0	0	0	0
1.41E-05	4.78E-05	0.00016	0.000107	0.000316	3.66E-05	0	1.54E-05	5.2E-05
4.06E-05	0.000645	0.000895	0.012216	0.013755	0.000657	0	4.42E-05	0.000701
0	0.005103	0.000662	0.006029	0.011795	0.005168	0.000166	0	0.005334
0	0	1.94E-05	0.000132	0.000152	0	0	0	0
4.07E-06	6.77E-05	9.93E-05	0.001581	0.001748	6.92E-05	0	4.43E-06	7.37E-05
0	0.002086	0.000292	0.003101	0.005479	0.002107	7.37E-05	0	0.002181
0	0	4.73E-06	3.77E-05	4.24E-05	0	0	0	0
0.000108	0.000272	8.68E-05	0.000364	0.000723	0.000176	0	0.000115	0.000291
0.000886	0.004433	0.006428	0.008817	0.019679	0.003858	0	0.000963	0.004822
0	0.000154	8.43E-05	0.000118	0.000357	0.000161	0	0	0.000161
0	0	0.000116	8.82E-05	0.000204	0	0	0	0
8.84E-06	3.05E-05	9.36E-05	6.26E-05	0.000187	2.35E-05	0	9.62E-06	3.31E-05
3.64E-08	1.39E-05	2.66E-05	0.00014	0.00018	1.51E-05	0	3.96E-08	1.51E-05
0	0.000191	1.7E-05	6.68E-05	0.000275	0.000199	0	0	0.000199
9.2E-06	8.01E-05	0.000157	0.000827	0.001065	7.71E-05	0	1E-05	8.71E-05
0	0.00286	0.000587	0.003128	0.006576	0.002853	0.000137	0	0.00299
0	0	7.96E-06	2.11E-05	2.91E-05	0	0	0	0
0	3.88E-06	6.79E-06	3.64E-05	4.71E-05	3.19E-06	1.03E-06	0	4.22E-06
1.61E-06	1.75E-05	4.54E-05	0.000237	0.0003	1.73E-05	0	1.75E-06	1.9E-05
0	0.000772	0.000249	0.001443	0.002464	0.000803	4.08E-06	0	0.000807
0	0	6.14E-07	1.6E-06	2.22E-06	0	0	0	0
0	8.01E-07	1.93E-06	1.04E-05	1.31E-05	8.26E-07	4.5E-08	0	8.71E-07
2.28E-07	4.81E-06	8.11E-06	6.38E-05	7.67E-05	4.98E-06	0	2.48E-07	5.23E-06

0	9.07E-05	1.24E-05	6.51E-05	0.000168	9.06E-05	4.23E-06	0	9.48E-05
0	0	2.02E-07	6.84E-07	8.85E-07	0	0	0	0
0	6.97E-07	5.41E-07	2.84E-06	4.07E-06	6.63E-07	9.51E-08	0	7.58E-07
4.11E-08	5.15E-06	9.57E-06	0.000149	0.000164	5.55E-06	0	4.47E-08	5.6E-06
0	0.000162	0.000192	0.000914	0.001268	0.000169	0	0	0.000169
0	0	3.14E-05	8.21E-05	0.000114	0	0	0	0
0	1.36E-06	3.87E-05	0.000192	0.000232	1.42E-06	0	0	1.42E-06

PM10_PMT	PM10_PME	PM10_TOT	CO2_RUNE	CO2_IDLEX	CO2_STREX	CO2_TOTEX	CH4_RUNE	CH4_IDLEX
1.19E-05	5.27E-05	6.55E-05	1.322314	0	0.004972	1.327286	6.61E-05	0
0.004537	0.011446	0.019424	235.1103	11.90953	0	247.0198	0.00016	0.000232
3.38E-05	4.85E-05	8.24E-05	0	0	0	0	0	0
0.00047	0.002243	0.00274	19.23255	1.653549	0	20.8861	0.036459	0.004493
0.063367	0.053152	0.128801	2099.713	0	83.02975	2182.742	0.014558	0
0.000136	0.000117	0.000456	3.901728	0	0	3.901728	1.65E-05	0
0.006577	0.003595	0.010173	0	0	0	0	0	0
0.0025	0.001188	0.003949	40.02608	0	2.315087	42.34117	0.000122	0
0.006376	0.00642	0.014354	247.4739	0	10.37995	257.8539	0.003298	0
6.69E-07	7.92E-07	2.19E-05	0.034844	0	0	0.034844	1.2E-06	0
3.71E-05	2.03E-05	5.74E-05	0	0	0	0	0	0
2.66E-05	1.28E-05	4.12E-05	0.389662	0	0.024324	0.413986	1.18E-06	0
0.044729	0.043524	0.096685	1778.892	0	68.11201	1847.004	0.01105	0
0.000171	0.000168	0.000433	6.343232	0	0	6.343232	1.2E-05	0
0.000431	0.000235	0.000665	0	0	0	0	0	0
0.000642	0.000307	0.001	9.827768	0	0.669999	10.49777	2.99E-05	0
0.00358	0.034902	0.039182	368.3769	1.477296	5.05451	374.9087	0.002194	0.001334
0.00265	0.017225	0.025209	137.1736	0.743566	0	137.9172	0.001262	3.03E-05
7.75E-05	0.000378	0.000455	0	0	0	0	0	0
0.000397	0.004517	0.004988	46.12027	0.197784	0.552453	46.87051	0.000204	0.000147
0.001168	0.008859	0.012208	71.26736	0.524025	0	71.79139	0.000534	1.34E-05
1.89E-05	0.000108	0.000127	0	0	0	0	0	0
0.000347	0.001041	0.001679	16.17369	0	1.377347	17.55104	0.012217	0
0.025714	0.025192	0.055727	1233.471	0	46.25245	1279.723	0.007131	0
0.000337	0.000338	0.000836	16.42444	0	0	16.42444	1.66E-05	0
0.000462	0.000252	0.000714	0	0	0	0	0	0
0.000375	0.000179	0.000587	5.750378	0	0.466812	6.21719	1.75E-05	0
0.000107	0.0004	0.000521	17.27617	0	0.00287	17.27904	8.9E-05	0
6.81E-05	0.000191	0.000458	4.62536	0	0	4.62536	1.75E-05	0
0.00063	0.002363	0.00308	90.06765	0.471568	0.807168	91.34638	0.000547	0.000243
0.002349	0.008938	0.014276	224.1275	10.5514	0	234.6789	0.000295	5.34E-05
3.18E-05	6.03E-05	9.21E-05	0	0	0	0	0	0
2.72E-05	0.000104	0.000136	2.258108	0.266014	0	2.524121	0.001758	0.000831
0.000181	0.000677	0.000878	25.77559	0.10253	0.165533	26.04365	0.000119	5.71E-05
0.000996	0.004122	0.005925	101.9215	1.482478	0	103.404	7.59E-05	1.74E-05
2.45E-06	4.58E-06	7.04E-06	0	0	0	0	0	0
7.74E-06	2.97E-05	3.83E-05	0.639197	0.012098	0	0.651295	0.000518	4.19E-05
3.25E-05	0.000182	0.00022	3.172927	0.196666	0.018819	3.388411	7.18E-05	0.000192

4.97E-05	0.000186	0.000331	4.718098	0.414475	0	5.132573	1.24E-05	1.51E-06
8.06E-07	1.95E-06	2.76E-06	0	0	0	0	0	0
2.16E-06	8.1E-06	1.1E-05	0.223201	0.029588	0	0.252789	0.000595	0.000107
3.83E-05	0.000427	0.000471	4.597365	0	0.010901	4.608266	9.44E-06	0
0.000769	0.00261	0.003548	29.03527	0	0	29.03527	7.46E-05	0
0.000126	0.000235	0.00036	0	0	0	0	0	0
0.000155	0.00055	0.000706	6.3116	0	0	6.3116	0.020498	0

CH4_STREX	CH4_TOTE	N2O_RUNE	N2O_IDLEX	N2O_STRE	N2O_TOTE	ROG_RUNE	ROG_IDLEX	ROG_STRE
9.42E-09	6.61E-05	8.99E-05	0	9.92E-09	8.99E-05	0.000326	0	5.11E-08
0	0.000391	0.037042	0.001876	0	0.038918	0.003436	0.004986	0
0	0	0	0	0	0	0	0	0
0	0.040952	0.003921	0.000337	0	0.004258	0.000798	7.17E-05	0
0.078839	0.093397	0.031682	0	0.037258	0.06894	0.055245	0	0.365886
0	1.65E-05	0.000615	0	0	0.000615	0.000355	0	0
0	0	0	0	0	0	0	0	0
0.001532	0.001654	0.00016	0	0.000723	0.000883	0.0004	0	0.006476
0.010781	0.014079	0.005506	0	0.00436	0.009866	0.014429	0	0.054117
0	1.2E-06	5.49E-06	0	0	5.49E-06	2.59E-05	0	0
0	0	0	0	0	0	0	0	0
1.5E-05	1.62E-05	1.56E-06	0	7.06E-06	8.62E-06	3.9E-06	0	6.34E-05
0.056081	0.067131	0.024317	0	0.027033	0.05135	0.041294	0	0.252748
0	1.2E-05	0.000999	0	0	0.000999	0.000258	0	0
0	0	0	0	0	0	0	0	0
0.000379	0.000408	3.93E-05	0	0.000178	0.000218	9.83E-05	0	0.001602
0.005207	0.008735	0.002425	3.64E-05	0.008895	0.011356	0.010595	0.004788	0.025149
0	0.001293	0.021612	0.000117	0	0.021729	0.027174	0.000653	0
0	0	0	0	0	0	0	0	0
0.000589	0.00094	0.00032	3.92E-06	0.000986	0.00131	0.000926	0.000533	0.002856
0	0.000548	0.011228	8.26E-05	0	0.011311	0.011507	0.000289	0
0	0	0	0	0	0	0	0	0
0.005136	0.017353	0.00316	0	0.000219	0.003379	0.077385	0	0.037618
0.035422	0.042553	0.015265	0	0.015982	0.031247	0.02787	0	0.168867
0	1.66E-05	0.002588	0	0	0.002588	0.000358	0	0
0	0	0	0	0	0	0	0	0
0.000216	0.000234	2.32E-05	0	0.000102	0.000125	5.75E-05	0	0.000911
3.31E-06	9.23E-05	0.00017	0	4.02E-06	0.000174	0.000361	0	1.35E-05
0	1.75E-05	0.000729	0	0	0.000729	0.000376	0	0
0.000821	0.001611	0.000914	6.76E-06	0.000617	0.001538	0.002627	0.000926	0.004393
0	0.000348	0.035311	0.001662	0	0.036974	0.006344	0.001149	0
0	0	0	0	0	0	0	0	0
0	0.00259	0.00046	5.42E-05	0	0.000515	2.51E-05	1.19E-05	0
0.00018	0.000356	0.000226	1.61E-06	0.000175	0.000403	0.000551	0.000208	0.000892
0	9.33E-05	0.016058	0.000234	0	0.016291	0.001635	0.000374	0
0	0	0	0	0	0	0	0	0
0	0.00056	0.00013	2.47E-06	0	0.000133	7.4E-06	5.99E-07	0
2.69E-05	0.000291	0.000147	6.48E-06	1.78E-05	0.000171	0.000352	0.000835	0.000156

0	1.39E-05	0.000743	6.53E-05	0	0.000809	0.000266	3.26E-05	0
0	0	0	0	0	0	0	0	0
0	0.000702	4.55E-05	6.03E-06	0	5.15E-05	8.5E-06	1.53E-06	0
1.25E-05	2.2E-05	2.27E-05	0	1.86E-05	4.13E-05	2.73E-05	0	4.7E-05
0	7.46E-05	0.004575	0	0	0.004575	0.001607	0	0
0	0	0	0	0	0	0	0	0
0	0.020498	0.001287	0	0	0.001287	0.000293	0	0

ROG_TOTE	ROG_DIUR	ROG_HOTS	ROG_RUNI	ROG_TOTA	TOG_RUNE	TOG_IDLEX	TOG_STRE)	TOG_TOTE
0.000326	1.03E-05	3.09E-06	2.3E-05	0.000363	0.000476	0	5.6E-08	0.000476
0.008422	0	0	0	0.008422	0.003911	0.005676	0	0.009588
0	0	0	0	0	0	0	0	0
0.00087	0	0	0	0.00087	0.037525	0.004594	0	0.042119
0.421132	0.327904	0.099525	0.256512	1.105074	0.080614	0	0.4006	0.481214
0.000355	0	0	0	0.000355	0.000404	0	0	0.000404
0	0	0	0	0	0	0	0	0
0.006877	0.003457	0.001392	0.001241	0.012967	0.000584	0	0.007091	0.007675
0.068545	0.054705	0.015851	0.044125	0.183225	0.021054	0	0.059251	0.080305
2.59E-05	0	0	0	2.59E-05	2.95E-05	0	0	2.95E-05
0	0	0	0	0	0	0	0	0
6.73E-05	2.31E-05	8.52E-06	7.26E-06	0.000106	5.69E-06	0	6.94E-05	7.51E-05
0.294042	0.160503	0.047828	0.12251	0.624883	0.060256	0	0.276728	0.336983
0.000258	0	0	0	0.000258	0.000294	0	0	0.000294
0	0	0	0	0	0	0	0	0
0.0017	0.000631	0.00023	0.000206	0.002767	0.000143	0	0.001754	0.001897
0.040532	0.022236	0.005993	0.032695	0.101456	0.015461	0.006987	0.027535	0.049982
0.027827	0	0	0	0.027827	0.030936	0.000743	0	0.031679
0	0	0	0	0	0	0	0	0
0.004315	0.002732	0.000724	0.003926	0.011696	0.001352	0.000777	0.003127	0.005256
0.011796	0	0	0	0.011796	0.0131	0.000329	0	0.013429
0	0	0	0	0	0	0	0	0
0.115002	0.048669	0.109469	0.114197	0.387338	0.094055	0	0.040908	0.134963
0.196737	0.103784	0.029665	0.080171	0.410357	0.040665	0	0.184888	0.225553
0.000358	0	0	0	0.000358	0.000408	0	0	0.000408
0	0	0	0	0	0	0	0	0
0.000968	0.000374	0.000142	0.000123	0.001606	8.39E-05	0	0.000997	0.001081
0.000375	0.002817	0.000774	1.85E-05	0.003984	0.000527	0	1.48E-05	0.000542
0.000376	0	0	0	0.000376	0.000429	0	0	0.000429
0.007946	0.00191	0.000487	0.003976	0.014319	0.003834	0.001352	0.004809	0.009995
0.007494	0	0	0	0.007494	0.007223	0.001308	0	0.008531
0	0	0	0	0	0	0	0	0
3.7E-05	0	0	0	3.7E-05	0.001794	0.000848	0	0.002643
0.001651	0.00055	0.000144	0.000648	0.002992	0.000804	0.000304	0.000976	0.002084
0.002009	0	0	0	0.002009	0.001861	0.000425	0	0.002287
0	0	0	0	0	0	0	0	0
8E-06	0	0	0	8E-06	0.000529	4.28E-05	0	0.000571
0.001342	0.00015	3.86E-05	0.000114	0.001645	0.000513	0.001218	0.000171	0.001902

0.000299	0	0	0	0.000299	0.000303	3.71E-05	0	0.00034
0	0	0	0	0	0	0	0	0
1E-05	0	0	0	1E-05	0.000607	0.00011	0	0.000716
7.43E-05	4.2E-05	1.57E-05	3.26E-05	0.000165	3.98E-05	0	5.15E-05	9.13E-05
0.001607	0	0	0	0.001607	0.001829	0	0	0.001829
0	0	0	0	0	0	0	0	0
0.000293	0	0	0	0.000293	0.020919	0	0	0.020919

TOG_DIURI	TOG_HOTS	TOG_RUNL	TOG_TOTA	CO_RUNEX	CO_IDLEX	CO_STREX	CO_TOTEX	SOx_RUNE
1.03E-05	3.09E-06	2.3E-05	0.000513	0.01967	0	0.000481	0.020151	1.31E-05
0	0	0	0.009588	0.014937	0.069927	0	0.084864	0.002226
0	0	0	0	0	0	0	0	0
0	0	0	0.042119	0.206526	0.012547	0	0.219073	0
0.327904	0.099525	0.256512	1.165155	4.773623	0	3.726782	8.500405	0.020758
0	0	0	0.000404	0.004966	0	0	0.004966	3.7E-05
0	0	0	0	0	0	0	0	0
0.003457	0.001392	0.001241	0.013766	0.059784	0	0.050532	0.110316	0.000396
0.054705	0.015851	0.044125	0.194985	0.793925	0	0.545686	1.339612	0.002447
0	0	0	2.95E-05	0.000138	0	0	0.000138	3.3E-07
0	0	0	0	0	0	0	0	0
2.31E-05	8.52E-06	7.26E-06	0.000114	0.000582	0	0.000494	0.001077	3.85E-06
0.160503	0.047828	0.12251	0.667825	3.447994	0	2.597963	6.045957	0.017586
0	0	0	0.000294	0.002505	0	0	0.002505	6.01E-05
0	0	0	0	0	0	0	0	0
0.000631	0.00023	0.000206	0.002965	0.014682	0	0.012498	0.02718	9.72E-05
0.022236	0.005993	0.032695	0.110907	0.396106	0.048213	0.641559	1.085879	0.003642
0	0	0	0.031679	0.066613	0.005412	0	0.072025	0.0013
0	0	0	0	0	0	0	0	0
0.002732	0.000724	0.003926	0.012637	0.03819	0.005577	0.073138	0.116905	0.000456
0	0	0	0.013429	0.025794	0.002393	0	0.028188	0.000675
0	0	0	0	0	0	0	0	0
0.048669	0.109469	0.114197	0.407298	0.925316	0	0.237307	1.162623	0.00016
0.103784	0.029665	0.080171	0.439173	2.059333	0	1.527104	3.586437	0.012194
0	0	0	0.000408	0.007028	0	0	0.007028	0.000156
0	0	0	0	0	0	0	0	0
0.000374	0.000142	0.000123	0.001719	0.008591	0	0.007106	0.015696	5.68E-05
0.002817	0.000774	1.85E-05	0.004151	0.008036	0	0.000304	0.008341	0.000171
0	0	0	0.000429	0.001167	0	0	0.001167	4.38E-05
0.00191	0.000487	0.003976	0.016368	0.053387	0.013811	0.096257	0.163454	0.00089
0	0	0	0.008531	0.023647	0.035616	0	0.059263	0.002122
0	0	0	0	0	0	0	0	0
0	0	0	0.002643	0.006942	0.001836	0	0.008778	0
0.00055	0.000144	0.000648	0.003425	0.01175	0.00161	0.01862	0.03198	0.000255
0	0	0	0.002287	0.007682	0.006974	0	0.014657	0.000965
0	0	0	0	0	0	0	0	0
0	0	0	0.000571	0.002121	7.87E-05	0	0.0022	0
0.00015	3.86E-05	0.000114	0.002205	0.008991	0.006456	0.003841	0.019289	3.14E-05

0	0	0	0.00034	0.000811	0.000847	0	0.001658	4.47E-05
0	0	0	0	0	0	0	0	0
0	0	0	0.000716	0.001982	0.000162	0	0.002144	0
4.2E-05	1.57E-05	3.26E-05	0.000182	0.002597	0	0.00169	0.004287	4.54E-05
0	0	0	0.001829	0.001832	0	0	0.001832	0.000275
0	0	0	0	0	0	0	0	0
0	0	0	0.020919	0.232484	0	0	0.232484	0

SOx_IDLEX	SOx_STREX	SOx_TOTEX	NH3_RUNE	Fuel Consumption
0	4.92E-08	1.31E-05	2.68E-05	0.139961
0.000113	0	0.002339	0.026496	22.06618
0	0	0	0	0
0	0	0	0.009408	2.414114
0	0.000821	0.021579	0.292432	230.1675
0	0	3.7E-05	5.26E-05	0.34854
0	0	0	0	0
0	2.29E-05	0.000419	0.00596	4.464824
0	0.000103	0.002549	0.030282	27.19037
0	0	3.3E-07	2.59E-07	0.003113
0	0	0	0	0
0	2.4E-07	4.09E-06	6.06E-05	0.043654
0	0.000673	0.01826	0.218572	194.7642
0	0	6.01E-05	6.65E-05	0.566638
0	0	0	0	0
0	6.62E-06	0.000104	0.001528	1.106976
1.46E-05	5E-05	0.003706	0.020118	39.53365
7.05E-06	0	0.001307	0.043286	12.32009
0	0	0	0	0
1.96E-06	5.46E-06	0.000463	0.002233	4.942437
4.97E-06	0	0.00068	0.019841	6.413096
0	0	0	0	0
0	1.36E-05	0.000174	0.000776	1.850735
0	0.000457	0.012651	0.126281	134.9452
0	0	0.000156	0.000131	1.467189
0	0	0	0	0
0	4.61E-06	6.15E-05	0.000895	0.655595
0	2.84E-08	0.000171	0.000399	1.822053
0	0	4.38E-05	0.000829	0.413182
4.66E-06	7.98E-06	0.000903	0.002361	9.632362
9.99E-05	0	0.002222	0.041174	20.96378
0	0	0	0	0
0	0	0	0.0024	0.29175
1.01E-06	1.64E-06	0.000257	0.00068	2.74627
1.4E-05	0	0.000979	0.018085	9.237037
0	0	0	0	0
0	0	0	0.000683	0.07528
1.94E-06	1.86E-07	3.35E-05	0.000183	0.357304

3.92E-06	0	4.86E-05	0.000598	0.458491
0	0	0	0	0
0	0	0	0.000191	0.029219
0	1.08E-07	4.56E-05	0.000208	0.485936
0	0	0.000275	0.00522	2.593709
0	0	0	0	0
0	0	0	0.004848	0.729525

Appendix C

VMT and Traffic Circulation Analysis

Hexagon Transportation Consultants, Inc.

Memorandum

Date: February 3, 2022

To: Barbara Beard, Kate Werner

From: Gary Black, Rueben Rodriguez

Subject: VMT and Traffic Circulation Analysis for the Proposed Residential Development at 308-310 Phelps Road in San Carlos, California

Hexagon Transportation Consultants, Inc. has completed a vehicle miles traveled (VMT) and traffic circulation analysis of the proposed 308-310 Phelps Road project in San Carlos, California (see Figure 1). The proposed project would remove the two existing single-family homes and construct nine single-family homes. (see Figure 2).

VMT Analysis

Pursuant to Senate Bill (SB) 743, the California Environmental Quality Act (CEQA) 2019 Update Guidelines Section 15064.3, subdivision (b) states that VMT will be the metric in analyzing transportation impacts for land use projects for CEQA purposes. VMT is the total miles of travel by personal motorized vehicles a project is expected to generate in a day. VMT measures the full distance of personal motorized vehicle-trips with one end within the project.

The San Carlos VMT policy states that small projects that would generate fewer than 100 daily trips can be assumed to have a less than significant impact on VMT. Based on the Institute of Transportation Engineers' (ITE) *Trip Generation Manual, 11th Edition* (2021) rates published for "Single-Family Detached Housing" (ITE Land Use 210) the proposed project would generate 85 daily vehicle trips (see Table 1). Since the estimated daily trips of 85 trips is less than the threshold of 100 daily trips, the proposed project can be presumed to have a less than significant impact on VMT. Note that the VMT analysis is based on the gross project trips of 85 daily vehicle trips; however, with trip credits for the existing single-family homes on-site the project would generate 66 new daily vehicle trips, with 5 trips occurring during the AM peak hour and 6 trips occurring during the PM peak hour.

Table 1
Trip Generation Summary

Land Use	Size	Units	Daily Trips	AM Peak-Hour Trips			PM Peak-Hour Trips		
				In	Out	Total	In	Out	Total
Proposed									
Single-Family Homes[1]	9	d.u.	85	2	4	6	5	3	8
Existing									
Single-Family Homes[1]	2	d.u.	19	1	0	1	1	1	2
Net New Vehicle Trips			***66***	***1***	***4***	***5***	***4***	***2***	***6***

Notes:
d.u. = dwelling units

[1] Single-family home trip generation based on the rates published in the ITE *Trip Generation Manual, 11th Edition (2021)* for Single-Family Detached Housing (Land Use Code 210).

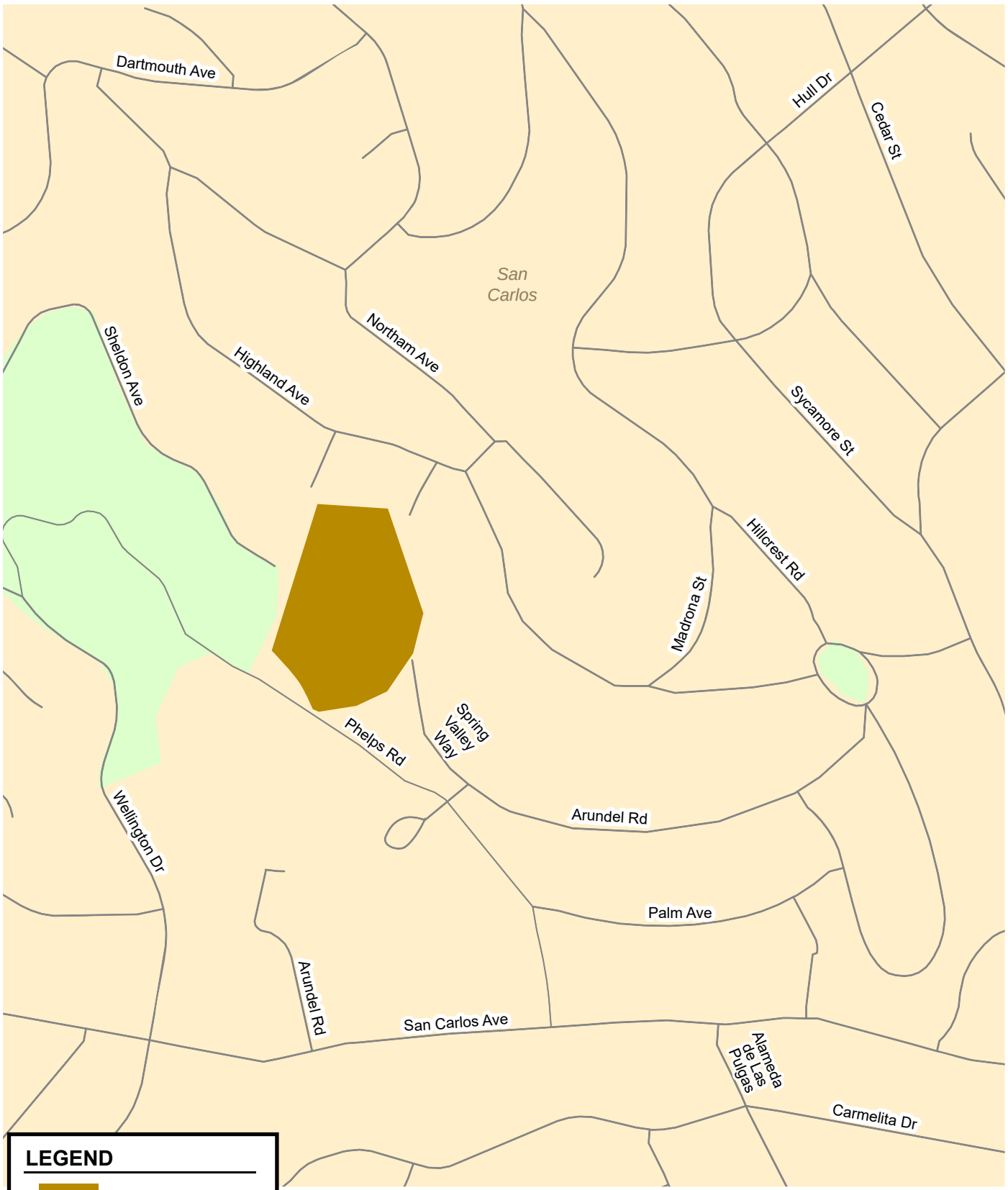

Figure 1
Project Site and Surrounding Area

Figure 2
Site Plan

NORTH
Not to Scale

Traffic Circulation

The project site would be accessible from Phelps Road and Spring Valley Road. Phelps Road is a two-lane public road that has an advisory speed of 15 miles per hour (mph) near the project site. Adjacent to the project site, Phelps Road provides access to a parking lot for Arundel Elementary School. In the vicinity of the project site, there is an existing sidewalk along the east side of Phelps Road and there are crosswalks and curb ramps on each leg/corner of the unsignalized intersection of Phelps Road/Arundel Road. The west leg of the Phelps Road/Arundel Road intersection provides access to a drop-off loop for the elementary school.

Spring Valley Road is a two-lane private road that provides access to the nearby residential homes.

Two of the proposed single-family homes would be accessible via Phelps Road, and the remaining seven single family homes would be accessible via Spring Valley Road. The two proposed homes adjacent to Phelps Road would add a minimal number of new trips to Phelps Road. These new trips on Phelps Road would not have an adverse effect on the operations of the Arundel Elementary School parking lot.

At the intersection of Phelps Road/Arundel Road the new trips added by the project would not be noticeable. During the AM and PM peak hours the project would add 6 vehicle trips and 8 vehicle trips, respectively, to this intersection, which equates to one vehicle every 8 to 10 minutes during the peak periods. This additional traffic would not have an adverse effect on the school traffic. In addition, since the intersection of Phelps Road/Arundel Road is an all-way stop with crosswalks on each leg, the project's effect on pedestrian traffic at this intersection would be negligible.